



April 2021

SIMATIC Ident Configuration Guide

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Important notes:

All selection possibilities of this SIMATIC Ident Configuration Guide can also be found in the **TIA Selection Tool**.

This tool is available at:

<http://www.siemens.com/tst>

Other functional highlights of the selection tool:

- Create order lists
- Get price information by application to the mall
- Select other automation components (control devices, IO-Systems, industrial communication)
- Network view of all components
- Retrieve and compare technical data
- ... and much more

All current wireless approvals can be found on the Internet at:


































<http://www.siemens.com/rfid-approvals>






















The newest version of this configuration guide is published at:

<https://support.industry.siemens.com/cs/ww/en/view/67384964>

Each SIMATIC RF Family has characteristics that orients it to a particular range of applications:















- The first step is to understand the application by asking the right questions. Out of this process, the best-suited SIMATIC RF family can be determined
- A reader and tag combination within the specific family can be selected using the SIMATIC RF family matrix pages
- Within the chosen family, a network interface to the control system can be selected using the system interfaces pages

| | | | | |
|--|---|--|--|---|
| Technology | HF → UHF | | | |
| <i>What is the basic RF technology?</i> | RF1000  125 kHz + 13.56 MHz | RF200  13.56 MHz | RF300  13.56 MHz | RF600  868/915 MHz |
| Read Distance | Shorter → Longer | | | |
| <i>How far away can the tag be from the reader antenna system and still be seen?</i> | RF1000  30 mm | RF300  210 mm | RF200  650 mm | RF600  8 meters |
| Tag Memory | Less → More | | | |
| <i>How many bytes are required to be stored on the tag?</i> | RF600  384 bytes | RF200  8 kbytes | RF300  64 kbytes | |
| Metal Effects | Direct Mount → Spacer Mount | | | |
| <i>Do tags and reader need to be mounted on or around metal?</i> | RF300  Direct with reduction | RF600  Direct with reduction | RF200  Spacer Mount | |
| Tag Dimensions | Smallest → Largest | | | |
| <i>What is the smallest tag size available?</i> | RF200  Ø 4 x 5 mm | RF300  Ø 4 x 5 mm | RF600  Ø 21 x 20 mm | |
| Environment | Heavy ← Heavy | | | |
| <i>What kind of environmental extremes will the tags be subjected to?</i> | RF200  220° C IP68 | RF300  220° C IP68 | RF600  230° C IP68 | |
| Reader Dimensions | Smallest → Largest | | | |
| <i>How much space will there be for mounting the reader/ antenna?</i> | RF200  M8 x 38 | RF300  M12 x 40 | RF600  75 x 75 x 20 | |
| Multitag Mode | Less → More | | | |
| <i>Will there be more than one tag in the RF field at a time?</i> | RF200  1 | RF300  1 | RF600  100+ | |
| Tag Speed | Slower → Faster | | | |
| <i>How fast will the tag be traveling through the RF field?</i> | RF200  26 kbits/sec | RF300  100 kbits/sec | RF600  300 kbits/sec | |
| Air Interface Protocol | Siemens → Standard | | | |
| <i>Are there any requirements regarding the air interface protocol?</i> | RF300  Siemens/ ISO15693/14443 | RF200  ISO 15693 | RF600  ISO 18000 -62/ -63 | RF1000  ISO15693/14443 Legic, Emxx/Hitag |

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 85°C 86 x 54 x 0.3 IP65 | D261 6GT2 600-1AA01-0AX0 256 byte EEPROM  -25°C to 85°C 55 x 55 x 0.3 IP65 | D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68 | D200 6GT2 600-1AD00 -0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 175°C Ø 16 x 3 IP68/IPx9K | D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 100°C Ø 16 x 3 IP67/IPx9K | D560 6GT2 600-5AB00 8 kbyte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K |
|---|--|--|--|---|---|--|---|--|---|
| RF210R/ RF210M 6GT2 821-1AC10, RS422 6GT2 821-1AC32 / -1BC32, IO-Link* 6GT2 823-0AA00, Handheld (RS422)  | Integrated M18 x 71 | | | | | | 1-10/ 12 (0.04-0.39/0.47) | 1-8/ 9 (0.04-0.31/0.35) | 1-8/ 9 (0.04-0.31/0.35) |
| RF220R 6GT2 821-2AC10, RS422 6GT2 821-2AC32 / -2BC32, IO-Link*  | Integrated M30 x 71 | | | | | | 1-20/ 22 (0.04-0.79/0.87) | 1-18/ 20 (0.04-0.71/0.79) | 1-18/ 20 (0.04-0.71/0.79) |
| RF240R 6GT2 821-4AC10, RS422 6GT2 821-4AC40, RS232 (ASCII) 6GT2821-4AC32 / -4BC32, IO-Link*  | Integrated 50 x 50 x 30 | 2-80/ 94 (0.08-3.15/3.70) | 2-60/ 70 (0.08-2.36/2.76) | 2-84/ 95 (0.08-3.31/3.74) | 2-69/ 78 (0.08-2.72/3.07) | 2-80/ 90 (0.08-3.15/3.54) | 1-33/ 37 (0.04-1.30/1.46) | 1-30/ 34 (0.04-1.18/1.34) | 1-30/ 34 (0.04-1.18/1.34) |
| RF250R ANT 1 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CB00, ANT 1  |  75 x 75 x 20 | 5-95/ 110 (0.20-3.74/4.33) | 2-90/ 110 (0.08-3.54/4.33) | 5-95/ 115 (0.20-3.74/4.53) | 5-90/ 100 (0.20-3.54/3.94) | 10-95/ 110 (0.39-3.74/4.33) | 2-35/ 45 (0.08-1.38/1.77) | 2-30/ 40 (0.08-1.18/1.57) | 2-30/ 40 (0.08-1.18/1.57) |
| RF250R ANT 3 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD40-0AX0, ANT 3  |  28 x 50 x 10 | | | | | | 1-23/ 30 (0.04-0.91/1.18) | 0-21/ 27 (0-0.83/1.06) | 0-21/ 27 (0-0.83/1.06) |
| RF250R ANT 3S 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD60-0AX0, ANT 3S  |  28 x 50 x 10 | | | | | | | | |
| RF250R ANT 8 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CF10, ANT 8  |  Ø8 x 40 | | | | | | | | |
| RF250R ANT 12 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CC00, ANT 12** ***  |  Ø12 x 40 | | | | | | 0-12/ 17 (0-0.47/0.67) | 1-10/ 14 (0.04-0.39/0.55) | 1-10/ 14 (0.04-0.39/0.55) |
| Accessories | | | | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 85°C 86 x 54 x 0.3 IP65 | D261 6GT2 600-1AA01-0AX0 256 byte EEPROM  -25°C to 85°C 55 x 55 x 0.3 IP65 | D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68 | D200 6GT2 600-1AD00-0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 175°C Ø 16 x 3 IP68/IPx9K | D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 100°C Ø 16 x 3 IP67/IPx9K | D560 6GT2 600-5AB00 8 kbyte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K |
|--|---|--|--|---|--|--|---|--|---|
| RF250R ANT 18 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CA00, ANT 18** ***  |  Ø18 x 55 | | | | | | 1-18/ 26 (0.04-0.71/ 1.02) | 1-17/ 21 (0.04-0.67/ 0.83) | 1-17/ 21 (0.04-0.67/ 0.83) |
| RF250R ANT 30 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD00, ANT 30**  |  Ø30 x 58 | | | | | | 1-23/ 30 (0.04-0.91/ 1.18) | 1-21/ 27 (0.04-0.83/ 1.06) | 1-21/ 27 (0.04-0.83/ 1.06) |
| RF260R 6GT2 821-6AC10, RS422 6GT2 821-6AC40, RS232 (ASCII) 6GT2 821-6AC32 / -6BC32, IO-Link*  | Integrated | 2-120/ 135 (0.08-4.72/ 5.31) | 2-75/ 90 (0.08-2.95/ 3.54) | 2-110/ 130 (0.08-4.33/ 5.12) | 2-100/ 120 (1.18-3.94/ 4.72) | 2-90/ 120 (0.08-3.54/ 4.72) | 2-40/ 45 (0.08-1.57/ 1.77) | 2-40/45 (0.08-1.57/ 1.77) | 2-40/45 (0.08-1.57/ 1.77) |
| RF280R 6GT2 821-8AC10, RS422 6GT2 821-8AC40, RS232 (ASCII)  | Integrated | 10 -160/ 190 (0.39-6.3/ 7.48) | 20-110/ 150 (0.79-4.33/ 5.91) | 10-160/ 200 (0.39-6.3/ 7.87) | 20-140/ 185 (0.79-5.51/ 7.28) | 5-150/ 180 (0.20-5.91/ 7.09) | 2-55/ 70 (0.08-2.17/ 2.76) | 2-55/ 70 (0.08-2.17/ 2.76) | 2-55/ 70 (0.08-2.17/ 2.76) |
| Accessories | | | | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) |


















* not with Tags D5xx

** antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

*** antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas




















Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

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|--|---|--|--|---|--|--|---|--|---|
| RF285R 6GT2821-7AC12, RS232  Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 | ANT D1  6GT2 698-5AC00 75 x 75 x 20 | 10-150/200 (0.39-5.91/7.87) | 5-130/180 (0.20-5.12/7.09) | 10-150/200 (0.39-5.91/7.87) | 10-130/180 (0.39-5.12/7.09) | 10-105/145 (0.39-4.13/5.71) | 0-65/90 (0-2.56/3.54) | 0-60/85 (0-2.36/3.35) | 0-60/85 (0-2.36/3.35) |
| | ANT D5  6GT2 698-5AA10 380 x 380 x 110 | 0-300/380 (0-11.81/14.96) | 0-300/380 (0-11.81/14.96) | 0-350/450 (0-13.78/17.72) | 0-350/450 (0-13.78/17.72) | 0-240/320 (0-9.45/12.6) | 0-110/140 (0-4.33/5.51) | 0-100/120 (0-3.94/4.72) | 0-110/140 (0-4.33/5.51) |
| | ANT D6  6GT2 698-5AB00 580 x 480 x 110 | 0-350/450 (0-13.78/17.72) | 0-300/400 (0-11.81/15.75) | 0-450/550 (0-17.72/21.65) | 0-350/450 (0-13.78/17.72) | 0-320/400 (0-12.6/15.75) | | | |
| RF290R 6GT2 821-0AC12, RS232, RS422  Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 | ANT D1  6GT2 698-5AC00 75 x 75 x 20 | 10-180/ 250 (0.39-7.09/9.84) | 5-130/ 180 (0.39-5.12/7.09) | 10-180/ 250 (0.39-7.09/9.84) | 10-170/240 (0.39-6.69/9.45) | 10-170/240 (0.39-6.69/9.45) | 0-65/90 (0-2.56/3.54) | 0-60/85 (0-2.36/3.35) | 0-60/85 (0-2.36/3.35) |
| | ANT D5  6GT2 698-5AA10 380 x 380 x 110 | 0-350/ 450 (0-13.78/17.72) | 0-300/ 400 (0-11.81/15.75) | 0-400/ 500 (0-15.75/19.69) | 0-400/ 500 (0-15.75/19.69) | 0-300/ 375 (0-11.81/14.76) | 0-130/ 180 (0-5.12/7.09) | 0-120/ 160 (0-4.72/6.30) | 0-120/ 160 (0-4.72/6.30) |
| | ANT D6  6GT2 698-5AB00 580 x 480 x 110 | 0-400/ 500 (0-15.75/19.69) | 0-350/ 450 (0-13.78/17.72) | 0-550/ 650 (0-21.65/25.59) | 0-500/ 600 (0-19.69/23.62) | 0-500/ 650 (0-19.69/25.59) | | | |
| | ANT D10  6GT2 698-5AF00 1150 x 365 x 115 | 0-350/ 450 (0-13.78/17.72) | 0-350/ 450 (0-13.78/17.72) | 0-500/ 600 (0-19.69/23.62) | 0-450/ 550 (0-17.72/21.65) | 0-400/ 500 (0-15.75/19.69) | | | |
| Accessories | Covering hood for ANT D6 (6GT2 690-0AD00) | | | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) |













Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 IPx9K | D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø 6 x 5.8 IP68/ IPx9K | D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K | D521 6GT2 600-5AE00 8 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K | D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68 | D522 6GT2600-5AF00 6GT2600-5AF00-0AX0 8 kbyte FRAM  -40°C to 100°C Ø20 x 6 ; Ø18 x 5.2 IP68 |
|--|--|--|---|--|--|---|--|
| RF210R/ RF210M 6GT2 821-1AC10, RS422 6GT2 821-1AC32/ -1BC32, IO-Link* 6GT2 823-0AA00, Handheld (RS422)  | Integrated M18 x 71 | | 0-2/ 2 (0-0.08/0.08) | 0-3/ 4 (0.0-0.12/0.16) | 0-3/ 4 (0-0.12/0.16) | 1-9/ 10 (0.04-0.35/0.39) | 1-8/ 9 (0.04-0.31/0.35) |
| RF220R 6GT2 821-2AC10, RS422 6GT2 821-2AC32/ -2BC32, IO-Link*  | Integrated M30 x 71 | | | | | 1-12/ 14 (0.04-0.47/0.55) | 1-10/ 12 (0.04-0.39/0.47) |
| RF240R 6GT2 821-4AC10, RS422 6GT2 821-4AC40, RS232 (ASCII) 6GT2821-4AC32/ -4BC32, IO-Link*  | Integrated 50 x 50 x 30 | | | | | 1-12/ 15 (0.04-0.47/0.59) | 1-10/ 12 (0.04-0.39/0.47) |
| RF250R ANT 1 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32/ -5BC32, IO-Link* 6GT2 398-1CB00, ANT 1  |  75 x 75 x 20 | | | | | | |
| RF250R ANT 3 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32/ -5BC32, IO-Link* 6GT2 398-1CD40-0AX0, ANT 3  |  28 x 50 x 10 | | | | | 1-12/ 15 (0.04-0.47/0.59) | 1-12/ 15 (0.04-0.47/0.59) |
| RF250R ANT 3S 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32/ -5BC32, IO-Link* 6GT2 398-1CD60-0AX0, ANT 3S  |  28 x 50 x 10 | 0-2/ 3 (0-0.08/0.12) | 0-2/ 3 (0-0.08/0.12) | 0-3/ 4 (0-0.12/0.16) | 0-3/ 4 (0-0.12/0.16) | | |
| RF250R ANT 8 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32/ -5BC32, IO-Link* 6GT2 398-1CF10, ANT 8  |  Ø8 x 40 | 0-2/ 3 (0-0.08/0.12) | 0-3/ 4 (0-0.12/0.16) | 0-3/ 4 (0-0.12/0.16) | 0-3/ 4 (0-0.12/0.16) | | |
| RF250R ANT 12 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32/ -5BC32, IO-Link* 6GT2 398-1CC00, ANT 12** ***  |  Ø12 x 40 | 0-3/ 4 (0-0.12/0.16) | 0-4/ 5 (0-0.16/0.2) | 0-3/ 4 (0-0.12/0.16) | 0-3/ 4 (0-0.12/0.16) | 0-7/ 10 (0-0.28/0.39) | 1-7/ 9 (0.04-0.28/0.35) |
| Accessories | | | | | | | |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

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|---|---|--|---|--|--|---|--|
| RF250R ANT 18 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CA00, ANT 18** ***  |  Ø18 x 55 | | | 0-3/ 5 (0-0.12/0.20) | 0-4/ 5 (0-0.16/0.20) | 1-8/ 14 (0.04-0.31/0.55) | 1-10/ 12 (0.04-0.39/0.47) |
| RF250R ANT 30 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD00, ANT 30**  |  Ø30 x 58 | | | | | 0-12/ 15 (0-0.47/0.59) | 1-12/ 15 (0.04-0.47/0.59) |
| RF260R 6GT2 821-6AC10, RS422 6GT2 821-6AC40, RS232 (ASCII) 6GT2 821-6AC32 / -6BC32, IO-Link*  | Integrated 75 x 75 x 41 | | | | | | |
| RF280R 6GT2 821-8AC10, RS422 6GT2 821-8AC40, RS232 (ASCII)  | Integrated 160 x 96 x 41 | | | | | | |
| Accessories | | | | | | | |
















* not with Tags D5xx

** antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

*** antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas





















Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 IPx9K | D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø 6 x 5.8 IP68/ IPx9K | D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K | D521 6GT2 600-5AE00 8 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K | D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68 | D522 6GT2600-5AF00 6GT2600-5AF00-0AX0 8 kbyte FRAM  -40°C to 100°C Ø20 x 6 ; Ø18 x 5.2 IP68 |
|--|---|---|---|--|--|---|--|
| RF285R 6GT2821-7AC12, RS232  Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 | ANT D1  6GT2 698-5AC00 75 x 75 x 20 | | | | | | |
| | ANT D5  6GT2 698-5AA10 380 x 380 x 110 | | | | | | |
| | ANT D6  6GT2 698-5AB00 580 x 480 x 110 | | | | | | |
| RF290R 6GT2 821-0AC12, RS232, RS422  Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 | ANT D1  6GT2 698-5AC00 75 x 75 x 20 | | | | | | |
| | ANT D5  6GT2 698-5AA10 380 x 380 x 110 | | | | | | |
| | ANT D6  6GT2 698-5AB00 580 x 480 x 110 | | | | | | |
| | ANT D10  6GT2 698-5AF00 1150 x 365 x 115 | | | | | | |
| Accessories | Covering hood for ANT D6 (6GT2 690-0AD00) | | | | | | |














Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68/ IPx9K | D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 | D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K | D524 6GT2 600-5AC00 8 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K | D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 100°C Ø 50 x 3.6 IP68 | D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 | D526 6GT2 600-5AH00 8 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 |
|---|--|--|--|---|---|---|--|--|
| RF210R/ RF210M 6GT2 821-1AC10, RS422 6GT2 821-1AC32/ -1BC32, IO-Link* 6GT2 823-0AA00, Handheld (RS422)  | Integrated M18 x 71 | 1-18/ 20 (0.04-0.71/0.79) | 1-8/ 9 (0.04-0.31/0.35) | 1-16/ 18 (0.04-0.63/0.71) | 1-15/ 17 (0.04-0.59/0.67) | | | |
| RF220R 6GT2 821-2AC10, RS422 6GT2 821-2AC32/ -2BC32, IO-Link*  | Integrated M30 x 71 | 1-28/ 31 (0.04-1.10/1.22) | 2-21/ 25 (0.08-0.83/0.98) | 2-25/ 29 (0.08-0.98/1.14) | 2-22/ 25 (0.08-0.87/0.98) | 2-30/ 35 (0.08-1.18/1.38) | 2-25/ 30 (0.08-0.98/1.18) | 2-25/ 30 (0.08-0.98/1.18) |
| RF240R 6GT2 821-4AC10, RS422 6GT2 821-4AC40, RS232 (ASCII) 6GT2821-4AC32 / -4BC32, IO-Link*  | Integrated 50 x 50 x 30 | 2-53/ 60 (0.08-2.09/2.36) | 1-36/ 40 (0.04-1.42/1.57) | 1-47/ 53 (0.04-1.85/2.09) | 1-45/ 55 (0.04-1.77/2.17) | 2-57/ 65 (0.08-2.24/2.56) | 2-45/ 55 (0.08-1.77/2.17) | 2-45/ 55 (0.08-1.77/2.17) |
| RF250R ANT 1 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CB00, ANT 1  |  75 x 75 x 20 | 2-60/ 75 (0.08-2.36/2.95) | 5-60/ 70 (0.20-2.36/2.76) | 2-70/ 80 (0.08-2.76/3.15) | 1-65/ 80 (0.04-2.56/3.15) | 2-80/ 95 (0.08-3.15/3.74) | 2-80/ 95 (0.08-3.15/3.74) | 2-80/ 95 (0.08/3.15/3.74) |
| RF250R ANT 3 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD40-0AX0, ANT 3  |  28 x 50 x 10 | 2-32/ 40 (0.08-1.26/1.57) | 2-22/ 35 (0.08-0.87/1.38) | 0-34/ 48 (0-1.34/1.89) | 1-35/ 40 (0.04-1.38/1.57) | 0-47/ 60 (0-1.85/2.36) | 0-44/ 58 (0-1.73/2.28) | 2-35/ 45 (0.08-1.38/1.77) |
| RF250R ANT 3S 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD60-0AX0, ANT 3S  |  28 x 50 x 10 | | | | | | | |
| RF250R ANT 8 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CF10, ANT 8  |  Ø8 x 40 | | | | | | | |
| RF250R ANT 12 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CC00, ANT 12** ***  |  Ø12 x 40 | | | | | | | |
| Accessories | | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AL00) | Spacer (6GT2 690-0AL00) | Spacer (6GT2 690-0AL00) |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68/ IPx9K | D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 | D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K | D524 6GT2 600-5AC00 8 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K | D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 100°C Ø 50 x 3.6 IP68 | D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 | D526 6GT2 600-5AH00 8 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 |
|---|--|--|--|---|---|---|--|--|
| RF250R ANT 18 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CA00, ANT 18** *** |   Ø18 x 55 | 0-24/ 37 (0.0-0.94/ 1.46) | 1-18/ 27 (0.04-0.71/ 1.06) | 1-27/ 36 (0.04-1.06/ 1.42) | 1-25/ 30 (0.04-0.98/ 1.18) | | | |
| RF250R ANT 30 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD00, ANT 30** |   Ø30 x 58 | 1-35/ 48 (0.08-1.38/ 1.89) | 1-22/ 35 (0.04-0.87/ 1.38) | 0-34/ 48 (0-1.34/ 1.89) | 1-35/ 40 (0.04-1.38/ 1.57) | 0-47/ 60 (0-1.85/ 2.36) | 0-44/ 58 0-1.73/ 2.28) | 2-35/ 45 (0.08-1.38/ 1.77) |
| RF260R 6GT2 821-6AC10, RS422 6GT2 821-6AC40, RS232 (ASCII) 6GT2 821-6AC32 / -6BC32, IO-Link* |  Integrated 75 x 75 x 41 | 2-80/ 85 (0.08-3.15/ 3.35) | 2-60/ 70 (0.08-2.36/ 2.76) | 2-60/ 70 (0.08-2.36/ 2.76) | 2-60/ 70 (0.08-2.36/ 2.76) | 2-75/ 100 (0.08-2.95/ 3.94) | 2-70/ 85 (0.08-2.76/ 3.35) | 2-70/ 85 (0.08-2.76/ 3.35) |
| RF280R 6GT2 821-8AC10, RS422 6GT2 821-8AC40, RS232 (ASCII) |  Integrated 160 x 96 x 41 | 2-110/ 130 (0.08-4.33/ 5.12) | 2-85/ 110 (0.08-3.35/ 4.33) | 2-100/ 140 (0.08-3.94/ 5.51) | 2-110/ 130 (0.08-4.33/ 5.12) | 2-135/ 160 (0.08-5.31/ 6.3) | 2-145/ 175 (0.08-5.71/ 6.89) | 2-135/ 165 (0.08-5.31/ 6.5) |
| Accessories | | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AL00) | Spacer (6GT2 690-0AL00) | Spacer (6GT2 690-0AL00) |

















* not with Tags D5xx

** antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

*** antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas





















Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68/ IPx9K | D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 | D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K | D524 6GT2 600-5AC00 8 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K | D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 100°C Ø 50 x 3.6 IP68 | D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 | D526 6GT2 600-5AH00 8 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 |
|--|---|--|--|---|---|---|--|--|
| RF285R 6GT2821-7AC12, RS232  Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 | ANT D1  6GT2 698-5AC00 75 x 75 x 20 | 0-100/140 (0-3.94/ 5.51) | 0-90/130 (0-3.54/ 5.12) | 0-90/130 (0-3.54/ 5.12) | 0-90/130 (0-3.54/ 5.12) | 5-110/150 (0.20-4.34/ 5.91) | 5-100/140 (0.20-3.94/ 5.51) | 5-100/140 (0.20-3.94/ 5.51) |
| | ANT D5  6GT2 698-5AA10 380 x 380 x 110 | 0-180/240 (0-7.09/ 9.45) | 0-150/200 (0-5.91/ 7.87) | 0-180/240 (0-7.09/ 9.45) | 0-180/240 (0-7.09/ 9.45) | 0-300/380 (0-11.81/ 14.96) | 0-250/320 (0-9.84/ 12.60) | 0-250/320 (0-9.84/ 12.60) |
| | ANT D6  6GT2 698-5AB00 580 x 480 x 110 | 0-200/280 (0-7.87/ 11) | 0-180/240 (0-7.09/ 9.45) | 0-200/280 (0-7.87/ 11) | 0-200/250 (0-7.87/ 9.84) | 0-350/450 (0-13.78/ 17.72) | 0-300/380 (0-11.81/ 14.96) | 0-300/380 (0-11.81/ 14.96) |
| RF290R 6GT2 821-0AC12, RS232, RS422  Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 | ANT D1  6GT2 698-5AC00 75 x 75 x 20 | 0-100/ 140 (0-3.94/ 5.51) | 0-90/ 130 (0-3.54/ 5.12) | 0-90/ 130 (0-3.54/ 5.12) | 0-90/ 130 (0.00-3.54/ 5.12) | 5-110/150 (0.20-4.34/ 5.91) | 5-100/ 140 (0.20-3.94/ 5.51) | 5-100/ 140 (0.20-3.94/ 5.51) |
| | ANT D5  6GT2 698-5AA10 380 x 380 x 110 | 0-200/ 280 (0-7.87/ 11) | 0-200/ 280 (0-7.87/ 11) | 0-200/ 280 (0-7.87/ 11) | 0-200/ 280 (0-7.87/ 11) | 0-350/ 400 (0-13.78/ 15.75) | 0-300/ 350 (0-11.81/ 13.78) | 0-300/ 350 (0-11.81/ 13.78) |
| | ANT D6  6GT2 698-5AB00 580 x 480 x 110 | 0-220/ 300 (0-8.66/ 11.81) | 0-200/ 280 (0-7.87/ 11) | 0-220/ 300 (0-8.66/ 11.81) | 0-220/ 300 (0-8.66/ 11.81) | 0-400/ 500 (0-15.75/ 19.69) | 0-350/ 400 (0-13.78/ 15.75) | 0-350/ 400 (0-13.78/ 15.75) |
| | ANT D10  6GT2 698-5AF00 1150 x 365 x 115 | 0-200/ 280 (0-7.87/ 11) | 0-200/ 280 (0-7.87/ 11) | 0-200/ 280 (0-7.87/ 11) | 0-220/ 300 (0-8.66/ 11.81) | 0-400/ 500 (0-15.75/ 19.69) | 0-350/ 400 (0-13.78/ 15.75) | 0-350/ 400 (0-13.78/ 15.75) |
| Accessories | Covering hood for ANT D6 (6GT2 690-0AD00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AL00) | Spacer (6GT2 690-0AL00) | Spacer (6GT2 690-0AL00) |














Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K | D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K | D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K | D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K | D528 6GT2600-5AK00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K | D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K | D339 6GT2600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K |
|---|--|---|---|--|---|---|--|---|
| RF210R/ RF210M 6GT2 821-1AC10, RS422 6GT2 821-1AC32 / -1BC32, IO-Link* 6GT2 823-0AA00, Handheld (RS422)  | Integrated M18 x 71 | 2-10/ 12 (0,08-0.39/ 0.47) | 1-6/ 7 (0.04-0.24/ 0.28) | 1-6/ 7 (0.04-0.24/ 0.28) | 1-10/ 11 (0.04-0.39/ 0.43) | 1-10/ 11 (0.04-0.39/ 0.43) | | |
| RF220R 6GT2 821-2AC10, RS422 6GT2 821-2AC32 / -2BC32, IO-Link*  | Integrated M30 x 71 | 2-24/ 28 (0,08-0.95/ 1.1) | 1-11/ 13 (0.04-0.43/ 0.51) | 1-11/ 13 (0.04-0.43/ 0.51) | 1-18/ 21 (0.04-0.71/ 0.83) | 1-15/ 20 (0.04-0.59/ 0.79) | | |
| RF240R 6GT2 821-4AC10, RS422 6GT2 821-4AC40, RS232 (ASCII) 6GT2821-4AC32 / -4BC32, IO-Link*  | Integrated 50 x 50 x 30 | 2-35/ 40 (0.08-1.37/ 1.57) | 1-15/ 17 (0.04-0.59/ 0.67) | 1-15/ 17 (0.04-0.59/ 0.67) | 1-30/ 34 (0.04-1.18/ 1.34) | 1-30/ 35 (0.04-1.18/ 1.38) | | |
| RF250R ANT 1 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CB00, ANT 1  |  75 x 75 x 20 | 2-35/ 45 (0.08-1.37/ 1.77) | 2-25/ 30 (0.08-0.98/ 1.18) | 2-25/ 30 (0.08-0.98/ 1.18) | 2-40/ 50 (0.08-1.57/ 1.97) | 2-40/ 45 (0.08-1.57/ 1.77) | 5-90/ 105 (0.2-3.54/ 4.13) | 2-85/ 100 (0.08-3.35/ 3.94) |
| RF250R ANT 3 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD40-0AX0, ANT 3  |  28 x 50 x 10 | 0-24/ 30 (0-0.95/ 1.18) | 0-12/ 20 (0-0.47/ 0.79) | 1-12/ 20 (0.04-0.47/ 0.79) | 1-20/ 32 (0.04-0.79/ 1.26) | 1-20/ 25 (0.04-0.79/ 0.98) | | |
| RF250R ANT 3S 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD60-0AX0, ANT 3S  |  28 x 50 x 10 | | | | | | | |
| RF250R ANT 8 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CF10, ANT 8  |  Ø8 x 40 | | | | | | | |
| RF250R ANT 12 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CC00, ANT 12** ***  |  Ø12 x 40 | | 0-8/ 10 (0.0-0.31/ 0.39) | 1-8/ 10 (0.04-0.31/ 0.39) | 1-8/ 12 (0.04-0.31/ 0.47) | 1-8/ 12 (0.04-0.31/ 0.47) | | |
| Accessories | | Mounting cover (6GT2 690-0AE00) | | | | | Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short) | Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short) |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K | D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K | D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K | D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K | D528 6GT2600-5AK00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K | D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K | D339 6GT2600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K |
|---|--|---|---|--|---|---|--|---|
| RF250R ANT 18 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CA00, ANT 18*** |   Ø18 x 55 | 1-15/ 18 (0.04-0.59/0.71) | 1-11/ 16 (0.04-0.43/0.63) | 1-11/ 16 (0.04-0.43/0.63) | 1-18/ 25 (0.04-0.71/0.98) | 1-15/ 20 (0.04-0.59/0.79) | | |
| RF250R ANT 30 6GT2 821-5AC10, RS422 6GT2 821-5AC40, RS232 (ASCII) 6GT2821-5AC32 / -5BC32, IO-Link* 6GT2 398-1CD00, ANT 30** |   Ø30 x 58 | 0-18/ 26 (0-0.71/1.02) | 1-12/ 20 (0.04-0.47/0.79) | 1-12/ 20 (0.04-0.47/0.79) | 1-20/ 32 (0.04-0.79/1.26) | 1-20/ 25 (0.04-0.79/0.98) | | |
| RF260R 6GT2 821-6AC10, RS422 6GT2 821-6AC40, RS232 (ASCII) 6GT2 821-6AC32 / -6BC32, IO-Link* |  Integrated 75 x 75 x 41 | 2-40/ 45 (0.08-1.57/1.77) | | | 2-40/ 45 (0.08-1.57/1.77) | 2-35/ 40 (0.08-1.38/1.57) | 2-80/ 110 (0.08-3.15/4.33) | 5-65/ 80 (0.20-2.56/3.15) |
| RF280R 6GT2 821-8AC10, RS422 6GT2 821-8AC40, RS232 (ASCII) |  Integrated 160 x 96 x 41 | 5-60/ 70 (0.20-2.36/2.76) | 2-30/ 40 (0.08-1.18/1.57) | 2-30/ 40 (0.08-1.18/1.57) | 2-60/ 88 (0.08-2.36/3.46) | 2-60/ 85 (0.08-2.36/3.35) | 5-150/ 190 (0.20-5.91/7.48) | 5-150/ 170 (0.20-5.91/6.69) |
| Accessories | | Mounting cover (6GT2 690-0AE00) | | | | | Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short) | Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short) |

















* not with Tags D5xx

** antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

*** antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF200 Family Matrix 13.56 MHz Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | Antennas | D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K | D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K | D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K | D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K | D528 6GT2600-5AK00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K | D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K | D339 6GT2600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K | |
|--|---|---|---|--|---|---|--|---|--------------------------------|
| RF285R 6GT2821-7AC12, RS232  Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 | ANT D1  6GT2 698-5AC00 75 x 75 x 20 | 10-60/85 (0.39-2.36/ 3.35) | | | 0-55/80 (0-2.17/ 3.15) | 0-55/80 (0-2.17/ 3.15) | 5-160/220 (0.20-6.30/ 8.66) | 5-130/170 (0.20-5.12/ 6.69) | |
| | ANT D5  6GT2 698-5AA10 380 x 380 x 110 | | | | | | | 0-350/450 (0-13.78/ 17.72) | 0-280/350 (0-11.02/ 13.78) |
| | ANT D6  6GT2 698-5AB00 580 x 480 x 110 | | | | | | | 0-450/550 (0-17.72/ 21.65) | 0-350/450 (0-13.78/ 17.72) |
| RF290R 6GT2 821-0AC12, RS232, RS422  Accessory: Set for top rail mounting 6GK5798-8ML00-0AB3 | ANT D1  6GT2 698-5AC00 75 x 75 x 20 | 10-60/85 (0.39-2.36/ 3.35) | | | 0-55/ 80 (0-2.17/ 3.15) | 0-55/ 80 (0-2.17/ 3.15) | 5-160/ 220 (0.20-6.30/ 8.66) | 5-130/170 (0.20-5.12/ 6.69) | |
| | ANT D5  6GT2 698-5AA10 380 x 380 x 110 | | | | | | | 0-400/ 500 (0-15.75/ 19.69) | 0-300/ 380 (0-11.81/ 15.00) |
| | ANT D6  6GT2 698-5AB00 580 x 480 x 110 | | | | | | | 0-500/ 600 (0-19.69/ 23.62) | 0-400/ 480 (0-15.75/ 18.9) |
| | ANT D10  6GT2 698-5AF00 1150 x 365 x 115 | | | | | | | 0-450/ 550 (0-17.72/ 21.65) | 0-300/ 380 (0-11.81/ 15.00) |
| Accessories | Covering hood for ANT D6 (6GT2 690-0AD00) | Mounting cover (6GT2 690-0AE00) | | | | | Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short) | Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short) | |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

PROFINET & OPC UA & Ethernet/IP & TCP/IP

Communication Modules



A maximum of
1 reader at RF185C,
2 readers at RF186C/CI,
4 readers at RF188C/CI
of RF2x0R may be connected

2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
 10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
 50 m = 6GT2 891-4FN50*

Reader connector 90° angled:
 2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
 10 m = 6GT2 891-4JN10

Additional IOs



RF18xCI to sensor

Sensor cable from
 0.5 to 15 m available
 (e.g. 2 m = 6XV1801-2CH20)



Types of IO-Link IO module
 IO-extension module
 6ES7 14.... (up to 8xDI + 8xDO)
 See page 76 for detailed information



Or one Standard sensor
Or one Actor

* Cable improper for RF290R usage due to length limitation of 20 m

Reader powered through connection cable



- ANT 1** (6GT2 398-1CB00)
- ANT 3** (6GT2 398-1CD40-0AX0)
- ANT 3S** (6GT2 398-1CD60-0AX0)
- ANT 8** (6GT2 398-1CF10)
- ANT 12** (6GT2 398-1CC00) (6GT2398-1DC10 steel)
- ANT 18** (6GT2 398-1CA00) (6GT2398-1DA10 steel)
- ANT 30** (6GT2 398-1CD00) (6GT2398-1DD10 steel)

- ANT D1** (6GT2 698-5AC00)
- ANT D5** (6GT2 698-5AA10)
- ANT D6** (6GT2 698-5AB00)
- ANT D10** (6GT2 698-5AF00)

Opt. Splitter w/ D5, D6 only (6GT2 690-0AC00)

Tags

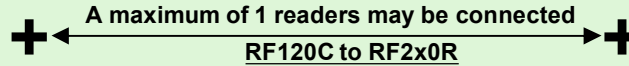
- D100** (6GT2 600-0AD10)
- D200** (6GT2 600-1AD00-0AX0)
- D400** (6GT2 600-4AD00)
- D421** (6GT2 600-4AE00)
- D521** (6GT2 600-5AE00)
- D422** (6GT2 600-4AF00)
- D522** (6GT2 600-5AF00)
- D522** (6GT2 600-5AF00-0AX0)
- D124** (6GT2 600-0AC10)
- D324** (6GT2 600-3AC00)
- D424** (6GT2 600-4AC00)
- D524** (6GT2 600-5AC00)
- D423** (6GT2 600-4AA00)
- D425** (6GT2 600-4AG00)
- D525** (6GT2 600-4AB00)
- D127** (6GT2 600-4AF00)
- D117** (6GT2 398-1CF00)
- D428** (6GT2 600-4AK00-0AX0)
- D528** (6GT2600-5AK00)
- D126** (6GT2 600-0AE00)
- D426** (6GT2 600-4AH00)
- D526** (6GT2 600-5AH00)
- D139** (6GT2 600-0AA10)
- D339** (6GT2 600-3AA10)
- D160** (6GT2 600-0AB10)
- D460** (6GT2 600-4AB00)
- D560** (6GT2600-5AB00)
- D165** (6GT2 600-1AB00-0AX0)
- D261** (6GT2 600-1AA01-0AX0)

SIMATIC PLC S7-1200



RF120C
6GT2 002-0LA00

Up to 3 x RF120C modules
per S7-1200 rack



2 m = 6GT2 091-4LH20 5 m = 6GT2 091-4LH50
10 m = 6GT2 091-4LN10

And extension cables:

2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*

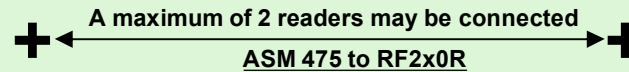
2 m = 6GT2 891-4JH20 Reader connector 90° angled
5 m = 6GT2 891-4JH50 Reader connector 90° angled
10 m = 6GT2 891-4JN10 Reader connector 90° angled

SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



ASM 475 + Front connector
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

Accessories:
Connecting element (6ES7 390-5AA00-0AA0)
Terminal element (6ES7 390-5BA00-0AA0)



2 m = 6GT2 891-4EH20 5 m = 6GT2 891-4EH50

And extension cables:

2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*

2 m = 6GT2 891-4JH20 Reader connector 90° angled
5 m = 6GT2 891-4JH50 Reader connector 90° angled
10 m = 6GT2 891-4JN10 Reader connector 90° angled

ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET 200pro PROFIBUS DP-V1
Interface module

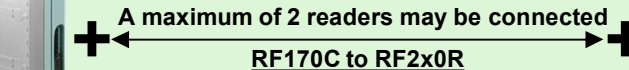
ET 200pro PROFINET
Interface module

ET 200pro PROFINET
CPU module

Up to 9 x 170C
modules per
ET 200pro rack



RF170C
Communication module
(6GT2002-0HD01)
Connection block
(6GT2002-1HD01)



2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*

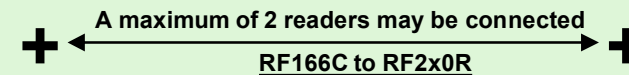
Reader connector 90° angled

2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
10 m = 6GT2 891-4JN10

PROFIBUS



RF166C (DP-V1)
Communication Module
(6GT2 002-0EE20)



2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50*

Reader connector 90° angled

2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
10 m = 6GT2 891-4JN10

* Cable improper for RF290R usage due to length limitation of 20 m

Reader powered through connection cable



RF210R
(6GT2 821-1AC10)



RF210M
(6GT2 823-0AA00)



RF220R
(6GT2 821-2AC10)



RF240R
(6GT2 821-4AC10)



RF250R
(6GT2 821-5AC10)



RF260R
(6GT2 821-6AC10)



RF280R
(6GT2 821-8AC10)



RF290R
(6GT2 821-0AC12)



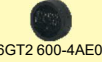
Opt. Splitter
w/ D5, D6 only
(6GT2 690-0AC00)

- ANT 1**
(6GT2 398-1CB00)
- ANT 3**
(6GT2 398-1CD40-0AX0)
- ANT 3S**
(6GT2 398-1CD60-0AX0)
- ANT 8**
(6GT2 398-1CF10)
- ANT 12**
(6GT2 398-1CC00)
(6GT2398-1DC10 steel)
- ANT 18**
(6GT2 398-1CA00)
(6GT2398-1DA10 steel)
- ANT 30**
(6GT2 398-1CD00)
(6GT2398-1DD10 steel)

Tags



D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00-0AX0)
D400 (6GT2 600-4AD00)



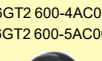
D421 (6GT2 600-4AE00)
D521 (6GT2 600-5AE00)



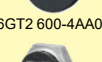
D422 (6GT2 600-4AF00)
D522 (6GT2 600-5AF00)
D522 (6GT2 600-5AF00-0AX0)



D124 (6GT2 600-0AC10)
D324 (6GT2 600-3AC00)
D424 (6GT2 600-4AC00)
D524 (6GT2 600-5AC00)



D423 (6GT2 600-4AA00)



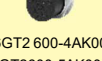
D425 (6GT2 600-4AG00)
D525 (6GT2 600-4AB00)



D127 (6GT2 600-4AF00)
D117 (6GT2 398-1CF00)



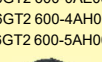
D428 (6GT2 600-4AK00-0AX0)
D528 (6GT2600-5AK00)



D126 (6GT2 600-0AE00)
D426 (6GT2 600-4AH00)
D526 (6GT2 600-5AH00)



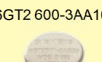
D139 (6GT2 600-0AA10)
D339 (6GT2 600-3AA10)



D160 (6GT2 600-0AB10)
D460 (6GT2 600-4AB00)
D560 (6GT2600-5AB00)



D165 (6GT2 600-1AB00-0AX0)
D261 (6GT2 600-1AA01-0AX0)

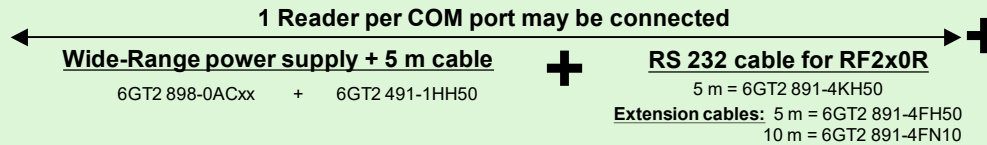


D166 (6GT2 600-1AA01-0AX0)

RS232 / ASCII



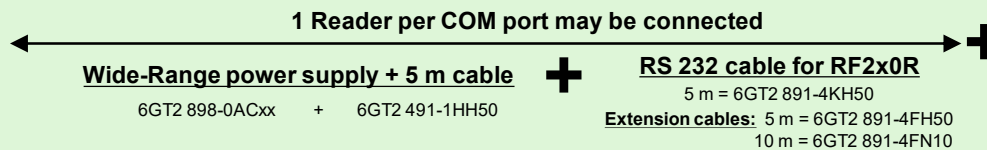
Simple text based protocol



RS232



Binary based protocol or Scanmode



Reader

with external power supply at Y-cable

- RF240R**
(6GT2 821-4AC40)
- RF250R**
(6GT2 821-5AC40)
- RF260R**
(6GT2 821-6AC40)
- RF280R**
(6GT2 821-8AC40)

- ANT 1**
(6GT2 398-1CB00)
- ANT 3**
(6GT2 398-1CD40-0AX0)
- ANT 3S**
(6GT2 398-1CD60-0AX0)
- ANT 8**
(6GT2 398-1CF10)
- ANT 12**
(6GT2 398-1CC00)
(6GT2398-1DC10 steel)
- ANT 18**
(6GT2 398-1CA00)
(6GT2398-1DA10 steel)
- ANT 30**
(6GT2 398-1CD00)
(6GT2398-1DD10 steel)

Tags

- D100** (6GT2 600-0AD10)
- D200** (6GT2 600-1AD00 -0AX0)
- D400** (6GT2 600-4AD00)
- D421** (6GT2 600-4AE00)
- D521** (6GT2 600-5AE00)
- D422** (6GT2 600-4AF00)
- D522** (6GT2 600-5AF00)
- D522** (6GT2 600-5AF00-0AX0)
- D124** (6GT2 600-0AC10)
- D324** (6GT2 600-3AC00)
- D424** (6GT2 600-4AC00)
- D524** (6GT2 600-5AC00)
- D423** (6GT2 600-4AA00)
- D425** (6GT2 600-4AG00)
- D525** (6GT2 600-4AB00)
- D127** (6GT2 600-4AF00)
- D117** (6GT2 398-1CF00)
- D428** (6GT2 600-4AK00-0AX0)
- D528** (6GT2600-5AK00)
- D126** (6GT2 600-0AE00)
- D426** (6GT2 600-4AH00)
- D526** (6GT2 600-5AH00)
- D139** (6GT2 600-0AA10)
- D339** (6GT2 600-3AA10)
- D160** (6GT2 600-0AB10)
- D460** (6GT2 600-4AB00)
- D560** (6GT2600-5AB00)
- D165** (6GT2 600-1AB00-0AX0)
- D261** (6GT2 600-1AA01-0AX0)

Reader

with external power supply at Y-cable

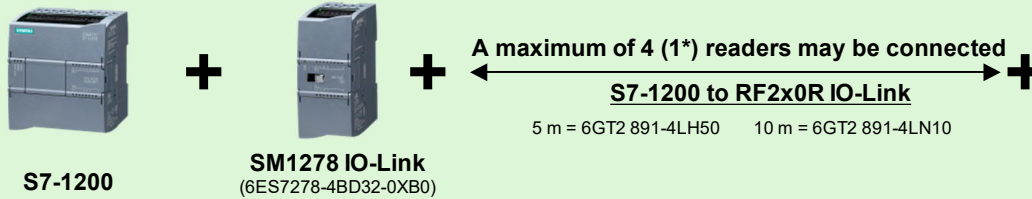
- RF285R***
(6GT2 821-7AC12)
- RF290R**
(6GT2 821-0AC12)

- ANT D1**
(6GT2 698-5AC00)
- ANT D5**
(6GT2 698-5AA10)
- ANT D6**
(6GT2 698-5AB00)
- ANT D10**
(6GT2 698-5AF00)

- Opt. Splitter
w/ D5, D6 only
(6GT2 690-0AC00)
- optional antenna cables**
- 10 m = 6GT2691-0CN10
 7.2 m extension = 6GT2691-0DH72

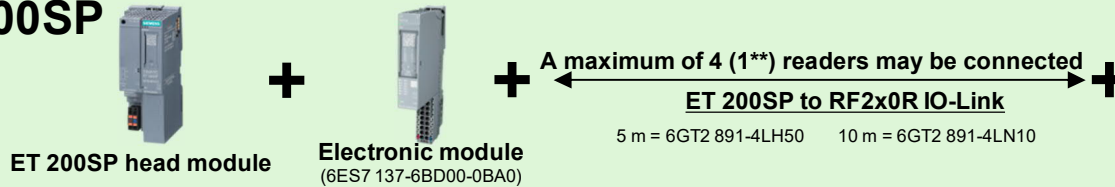
*do not use with D10 ; do not use with Splitter

IO-Link: S7-1200



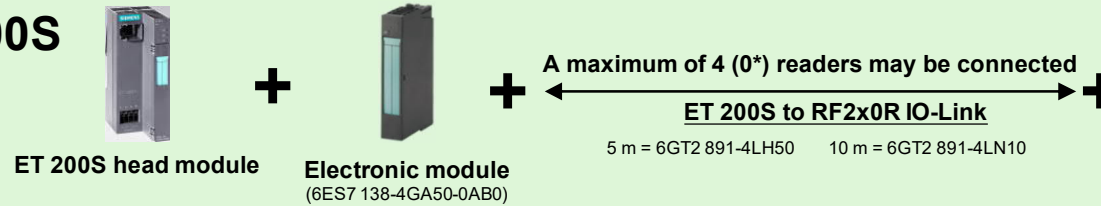
IO-Link: ET 200SP

via PROFIBUS
or PROFINET
or S7 PLC



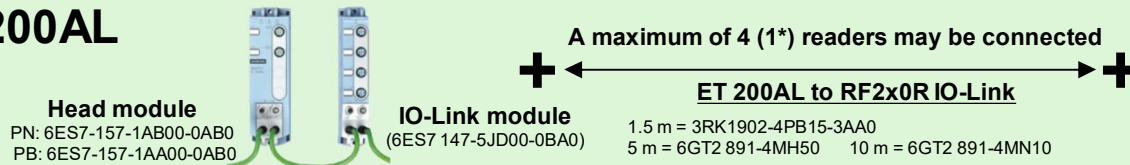
IO-Link: ET 200S

via PROFIBUS
or PROFINET
or S7 PLC



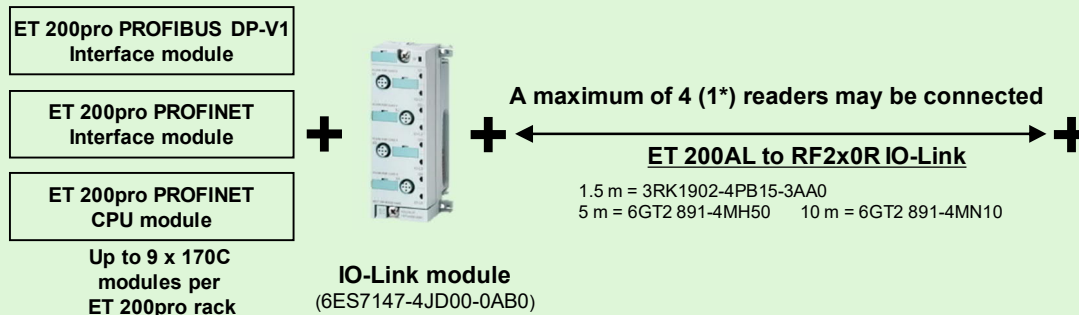
IO-Link: ET 200AL

via PROFIBUS
or PROFINET



IO-Link: ET 200pro

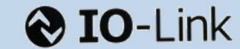
via PROFIBUS
or PROFINET
or S7 PLC



*) for IO-Link reader of type 32 Byte: Some IO-Link Master permit only one or none reader per module
**) in case of using a PROFIBUS head module at ET 200SP, only one 32 Byte reader may be connected

Reader

powered through connection cable



RF210R IO-Link
6GT2 821-1AC32 (8 Byte)
6GT2 821-1BC32 (32 Byte)



RF220R IO-Link
6GT2 821-2AC32 (8 Byte)
6GT2 821-2BC32 (32 Byte)



RF240R IO-Link
6GT2 821-4AC32 (8 Byte)
6GT2 821-4BC32 (32 Byte)



RF250R IO-Link
6GT2 821-5AC32 (8 Byte)
6GT2 821-5BC32 (32 Byte)

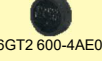


RF260R IO-Link
6GT2 821-6AC32 (8 Byte)
6GT2 821-6BC32 (32 Byte)

Tags



D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00-0AX0)
D400 (6GT2 600-4AD00)



D421 (6GT2 600-4AE00)



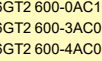
D422 (6GT2 600-4AF00)



D124 (6GT2 600-0AC10)



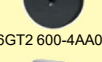
D324 (6GT2 600-3AC00)



D424 (6GT2 600-4AC00)



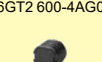
D423 (6GT2 600-4AA00)



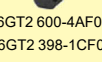
D425 (6GT2 600-4AG00)



D127 (6GT2 600-4AF00)



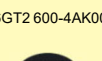
D117 (6GT2 398-1CF00)



D428 (6GT2 600-4AK00-0AX0)



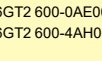
D126 (6GT2 600-0AE00)



D426 (6GT2 600-4AH00)



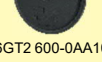
D139 (6GT2 600-0AA10)



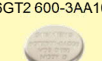
D339 (6GT2 600-3AA10)



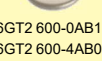
D160 (6GT2 600-0AB10)



D460 (6GT2 600-4AB00)

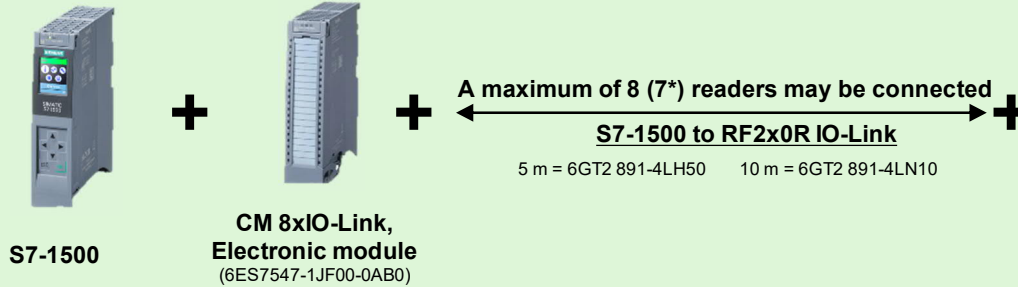


D165 (6GT2 600-1AB00-0AX0)

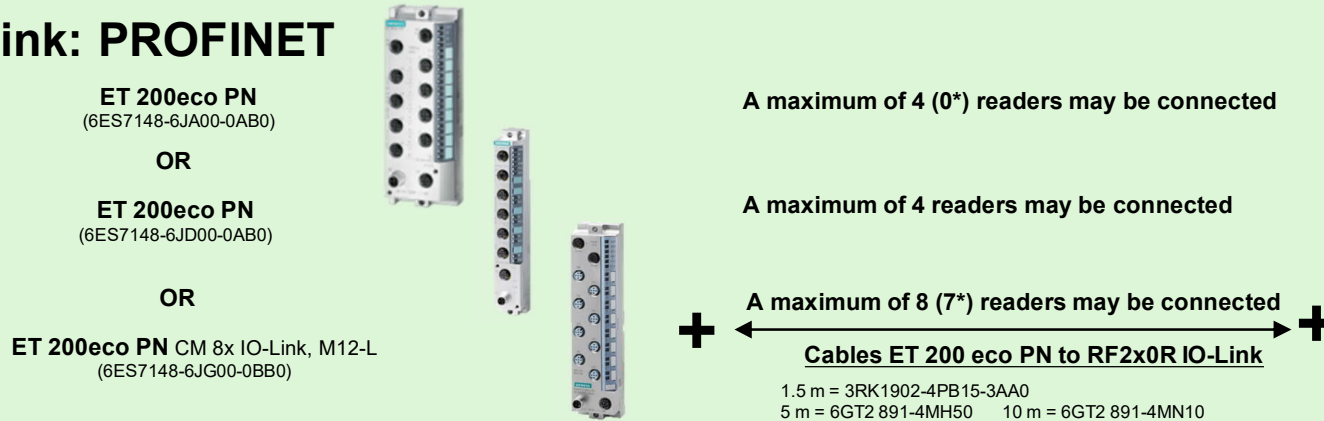


D261 (6GT2 600-1AA01-0AX0)

IO-Link: S7-1500



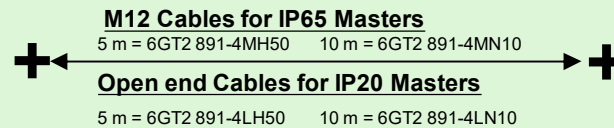
IO-Link: PROFINET



IO-Link: Other Master

| Vendors of IO-Link Master Devices | Central Controller | Profibus | Profinet | Interbus | EtherCat | Powerlink | Ethernet/IP | Modbus TCP | SERCOS III | CC-Link | CANopen | DeviceNet | AS-Interface | USB |
|-----------------------------------|--------------------|----------|----------|----------|----------|-----------|-------------|------------|------------|---------|---------|-----------|--------------|-----|
| B&R | X | X | X | | X | X | X | X | X | X | X | X | | |
| Balluff | | X | X | | X | | | | | X | | X | | X |
| Beckhoff | X | X | X | X | X | | X | X | X | X | X | X | | |
| Bosch Rexroth | X | X | X | | | | | X | | | | | | |
| Control | | | X | | | X | X | | | | | | | |
| ifm electronic GmbH | | X | X | | X | | | | | | | | X | X |
| Mitsubishi Electric | X | | | | | | | | | | | | | |
| Murrelektronik | | X | X | | | | | | | | | | | |
| OMRON Corporation | X | | | | X | | | | | | | | | |
| PhoenixContact | X | X | X | X | X | | X | X | X | | | | | |
| Siemens AG | X | X | X | | | | | | | | | | | |
| TMG TE GmbH | | | | | | | | | | | | | | X |
| WAGO | X | X | X | | X | | X | X | X | | X | X | | |
| Wenglor sensoric GmbH | | X | | | | | | | | | | | | X |

According to www.io-link.com
see competency-matrix for all available offers



*) for IO-Link reader of type 32 Byte:
Reduced number of reader per module for some types of IO-Link Master

Reader

powered through connection cable



RF210R IO-Link
6GT2 821-1AC32 (8 Byte)
6GT2 821-1BC32 (32 Byte)



RF220R IO-Link
6GT2 821-2AC32 (8 Byte)
6GT2 821-2BC32 (32 Byte)



RF240R IO-Link
6GT2 821-4AC32 (8 Byte)
6GT2 821-4BC32 (32 Byte)



RF250R IO-Link
6GT2 821-5AC32 (8 Byte)
6GT2 821-5BC32 (32 Byte)

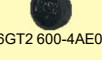


RF260R IO-Link
6GT2 821-6AC32 (8 Byte)
6GT2 821-6BC32 (32 Byte)

Tags



D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00-0AX0)
D400 (6GT2 600-4AD00)



D421 (6GT2 600-4AE00)



D422 (6GT2 600-4AF00)



D124 (6GT2 600-0AC10)

D324 (6GT2 600-3AC00)

D424 (6GT2 600-4AC00)



D423 (6GT2 600-4AA00)



D425 (6GT2 600-4AG00)



D127 (6GT2 600-4AF00)

D117 (6GT2 398-1CF00)



D428 (6GT2 600-4AK00-0AX0)



D126 (6GT2 600-0AE00)

D426 (6GT2 600-4AH00)



D139 (6GT2 600-0AA10)

D339 (6GT2 600-3AA10)


















D160 (6GT2 600-0AB10)

D460 (6GT2 600-4AB00)


















D165 (6GT2 600-1AB00-0AX0)

D261 (6GT2 600-1AA01-0AX0)

| RF300 Family Matrix (RF300 Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | Suitable for Dynamic Operation | RF320T 6GT2 800-1CA00 20 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67/IPX9K | RF330T 6GT2 800-5BA00 20 byte EEPROM 32 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/IPX9K | RF340T 20 byte EEPROM + 6GT2 800-4BB00 8 kbyte FRAM 6GT2 800-5BB00 32 kByte FRAM  -40°C to 85°C 48 x 25 x 15 IP67/IPX9K | RF350T 6GT2 800-5BD00 20 byte EEPROM 32 kbyte FRAM  -40°C to 85°C 50 x 50 x 20 IP68 | RF360T 20 byte EEPROM + 6GT2 800-4AC00 8 kbyte FRAM 6GT2 800-5AC00 32 kbyte FRAM  -40°C to 85°C 85.8 x 54.1 x 2.5 IP67 | RF370T 20 Byte EEPROM + 6GT2 800-5BE00 32 kbyte FRAM 6GT2 800-6BE00 64 kbyte FRAM  -40°C to 85°C 75 x 75 x 41 IP68 | RF380T 6GT2 800-5DA00 20 byte EEPROM 32 kbyte FRAM  -40°C to 220°C Ø 114 x 83 IP68 |
|---|---|---------------------------------------|--|---|--|--|---|---|---|
| RF310R RS422  6GT2801-1BA10 6GT2801-1BA10-0AX1 (90° plate) 6GT2801-1BA10-0AX2 (Ex) 6GT2 801-1BA20-0AX1 (Scanmode) | Integrated 55 x 75 x 30 | YES | 1-23/ 26 (0.04-0.91/ 1.02) | 2-18/ 21 (0.08-0.71/ 0.83) | 2-36/ 41 (0.08-1.42/ 1.61) | 2-47/ 53 (0.08-1.85/ 2.09) | 2-60/68 (0.08-2.36/ 2.68) | 2-45/ 60 (0.08-1.77/ 2.36) | |
| RF340R RS422  6GT2801-2BA10 6GT2801-2BA10-0AX2 (Ex) | Integrated 75 x 75 x 41 | YES | 1-20/ 25 (0.04-0.79/ 0.98) | 2-20/ 23 (0.08-0.79/ 0.91) | 2-50/ 58 (0.08-1.97/ 2.28) | 2-60/ 75 (0.08-2.36/ 2.95) | 2-65/ 85 (0.08-2.56/ 3.35) | 5-60/ 80 (0.20-2.36/ 3.15) | 5-80/ 100 (0.20-3.15/ 3.94) |
| RF350R ANT 1 RS422  6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CB00 (ANT 1) |  75 x 75 x 20 | YES | 1-30/ 37 (0.04-1.18/ 1.46) | 2-25/ 30 (0.08-0.98/ 1.18) | 2-55/ 70 (0.08-2.16/ 2.76) | 2-65/ 85 (0.08-2.56/ 3.35) | 2-75/ 100 (0.08-2.95/ 3.94) | 5-65/ 85 (0.20-2.56/ 3.35) | 5-90/ 110 (0.20-3.54/ 4.33) |
| RF350R ANT 3 RS422  6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD40-0AX0 (ANT 3) |  28 x 50 x 10 | NO | 1-15 / 18 (0.04-0.59/ 0.71) | 1-16 / 20 (0.04-0.63/ 0.79) | 2-32/ 40 (0.08-1.26/ 1.57) | 2-35/ 42 (0.08-1.38/ 1.65) | | | |
| RF350R ANT 3S RS422  6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD60-0AX0 (ANT 3S) |  28 x 50 x 10 | NO | | | | | | | |
| Accessories | | | Spacer (6GT2 690-0AK00) | Mounting cover (6GT2 690-0AE00) | | | 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | | Holder: (short: 6GT2 090-0QA00) (long: 6GT2 090-0QA00-0AX3) Cover for holder: (6GT2 090-0QB00) All Purpose Support (6GT2 590-0QA00) |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)




















| RF300 Family Matrix (RF300 Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | Suitable for Dynamic Operation | RF320T 6GT2 800-1CA00 20 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67/IPX9K | RF330T 6GT2 800-5BA00 20 byte EEPROM 32 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/IPX9K | RF340T 20 byte EEPROM + 6GT2 800-4BB00 8 kbyte FRAM 6GT2 800-5BB00 32 kbyte FRAM  -40°C to 85°C 48 x 25 x 15 IP67/IPX9K | RF350T 6GT2 800-5BD00 20 byte EEPROM 32 kbyte FRAM  -40°C to 85°C 50 x 50 x 20 IP68 | RF360T 20 byte EEPROM + 6GT2 800-4AC00 8 kbyte FRAM 6GT2 800-5AC00 32 kbyte FRAM  -40°C to 85°C 85.8 x 54.1 x 2.5 IP67 | RF370T 20 Byte EEPROM + 6GT2 800-5BE00 32 kbyte FRAM 6GT2 800-6BE00 64 kbyte FRAM  -40°C to 85°C 75 x 75 x 41 IP68 | RF380T 6GT2 800-5DA00 20 byte EEPROM 32 kbyte FRAM  -40°C to 220°C Ø 114 x 83 IP68 |
|--|---|---------------------------------------|--|---|--|--|---|---|---|
| RF350R ANT 12 RS422  6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CC00 (ANT 12) *) **) |  Ø12 x 40 | NO | | | | | | | |
| RF350R ANT 18 RS422  6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CA00 (ANT 18) *) **) |  Ø18 x 55 | NO | 0-10/ 13 (0-0.39/ 0.51) | 1-11/ 13 (0.04-0.43/ 0.51) | 0-18/ 22 (0.0-0.71/ 0.87) | | | | |
| RF350R ANT 30 RS422  6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD00 (ANT 30) *) |  Ø30 x 58 | NO | 0-15/ 20 (0-0.59/ 0.79) | 2-15/ 18 (0.08-0.59/ 0.71) | 1-25/ 30 (0.04-0.98/ 1.1 8) | 0-35/ 40 (0-1.18/ 1.57) | 2-32/ 38 (0.08-1.26/ 1.5) | | |
| RF360R Ethernet  6GT2801-5BA30 | Integrated 141 x 80 x 42 | YES | 1-20/ 25 (0.04-0.79/ 0.98) | 2-18/ 23 (0.08-0.71/ 0.91) | 2-50/ 58 (0.04-1.97/ 2.28) | 2-60/ 75 (0.08-2.36/ 2.95) | 2-65/ 85 (0.08-2.56/ 3.35) | 5-60/ 80 (0.20-2.36/ 3.15) | 5-80/ 100 (0.20-3.15/ 3.94) |
| RF380R RS422, RS232  6GT2801-3BA10 6GT2801-3BA10-0AX2 (Ex) | Integrated 160 x 96 x 41 | YES | 2-45/ 60 (0.08-1.77/ 2.36) | 5-45/ 48 (0.2-1.77/ 1.89) | 2-80/ 105 (0.08-3.15/ 4.13) | 2-100/ 125 (0.08-3.94/ 4.92) | 2-120/ 150 (0.08-4.72/ 5.91) | 5-100/ 135 (0.20-3.94/ 5.31) | 5-125/ 160 (0.20-4.92/ 6.30) |
| Accessories | | | Spacer (6GT2 690-0AK00) | Mounting cover (6GT2 690-0AE00) | | | 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | | Holder: (short: 6GT2 090-0QA00) (long: 6GT2 090-0QA00-0AX3) Cover for holder: (6GT2 090-0QB00) All Purpose Support (6GT2 590-0QA00) |

*) antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

**) antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas













Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 85°C 86 x 54 x 0.3 IP65 | D261 6GT2 600-1AA01-0AX0 256 byte EEPROM  -25°C to 85°C 55 x 55 x 0.3 IP65 | D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68 | D200 6GT2 600-1AD00 -0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 175°C Ø 16 x 3 IP68/IPx9K | D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 100°C Ø 16 x 3 IP67/IPx9K |
|---|--|--|---|---|---|--|---|--|
| RF310R RS422 6GT2801-1BA10 6GT2801-1BA10-0AX1 (90° plate) 6GT2801-1BA10-0AX2 (Ex) 6GT2 801-1BA20-0AX1 (Scanmode)  | Integrated 55 x 75 x 30 | 2-90/ 102 (0.08-3.54/ 4.02) | 2-74/ 83 (0.08-2.91/ 3.27) | 2-93/ 105 (0.08-3.66/ 4.1) | 2-80/ 90 (0.08-3.15/ 3.54) | 2-104/ 115 (0.08-4.09/ 4.53) | 1-39/ 44 (0.04-1.54/ 1.73) | 1-32/ 38 (0.08-1.26/ 1.50) |
| RF340R RS422 6GT2801-2BA10 6GT2801-2BA10-0AX2 (Ex)  | Integrated 75 x 75 x 41 | 15-120/ 140 (0.59-4.72/ 5.51) | 15-60/ 70 (0.59-2.36/ 2.76) | 5-110/ 140 (0.20-4.33/ 5.51) | 10-100/ 115 (0.39-3.94/ 4.53) | 2-100/ 130 (0.08-3.93/ 5.12) | 2-35/ 60 (0.08-1.38/ 2.36) | 2-25/ 40 (0.08-0.98/ 1.57) |
| RF350R ANT 1 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CB00 (ANT 1)  |  75 x 75 x 20 | 5-100/ 120 (0.20-3.94/ 4.72) | 5-80/ 95 (0.20-3.15/ 3.74) | 5-110/ 140 (0.20-4.33/ 5.51) | 5-95/ 115 (0.20-3.74/ 4.53) | 2-110/ 135 (0.08-4.33/ 5.31) | 2-35/ 60 (0.08-1.38/ 2.36) | 2-32/ 38 (0.08-1.26/ 1.50) |
| RF350R ANT 3 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD40-0AX0 (ANT 3)  |  28 x 50 x 10 | | | | | | 1-28/ 35 (0.04-1.10/ 1.38) | 1-20/ 28 (0.04-0.79/ 1.10) |
| RF350R ANT 3S RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD60-0AX0 (ANT 3S)  |  28 x 50 x 10 | | | | | | | |
| RF350R ANT 12 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CC00 (ANT 12) *) **  |  Ø12 x 40 | | | | | | 0-8/ 12 (0-0.31/ 0.47) | 1-8/ 10 (0.04-0.31/ 0.39) |
| RF350R ANT 18 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CA00 (ANT 18) *) **  |  Ø18 x 55 | | | | | | 1-18/ 20 (0.04-0.71/ 0.79) | 1-12/ 16 (0.04-0.47/ 0.63) |
| Accessories | | | | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)















| RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | D165 6GT2 600-1AB00-0AX0 112 byte EEPROM  -25°C to 85°C 86 x 54 x 0.3 IP65 | D261 6GT2 600-1AA01-0AX0 256 byte EEPROM  -25°C to 85°C 55 x 55 x 0.3 IP65 | D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68 | D200 6GT2 600-1AD00 -0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D160 6GT2 600-0AB10 112 byte EEPROM  -40°C to 175°C Ø 16 x 3 IP68/IPx9K | D460 6GT2 600-4AB00 2 kbyte FRAM  -40°C to 100°C Ø 16 x 3 IP67/IPx9K |
|---|---|--|---|---|---|--|---|--|
| RF350R ANT 30 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD00 (ANT 30) *)  |  Ø30 x 58 | | | | | | 1-24/ 28 (0.04-0.94/ 1.10) | 1-18/ 20 (0.04-0.71/ 0.79) |
| RF360R Ethernet 6GT2801-5BA30  | Integrated 141 x 80 x 42 | | | 5-110/ 140 (0.20-4.33/ 5.51) | 10-100/ 115 (0.39-3.94/ 4.53) | 2-100/ 125 (0.08-3.94/ 4.92) | | |
| RF380R RS422, RS232 6GT2801-3BA10 6GT2801-3BA10-0AX2 (Ex)  | Integrated 160 x 96 x 41 | 10-170/ 200 (0.39-6.69/ 7.87) | 20-120/ 160 (0.79-4.72/ 6.30) | 10-170/ 210 (0.39-6.69/ 8.27) | 20-150/195 (0.79-5.90/ 7.67) | 10-165/ 185 (0.39-4.50/ 7.28) | 2-64/ 80 (0.08-2.52/ 3.15) | 2-65/ 90 (0.08-2.56/ 3.54) |
| RF382R RS422, RS232 6GT2801-3AB20-0AX0  | Integrated 160 x 96 x 41 | | | | | | 35-50/ 65 (1.38-1.97/ 2.56) | 35-50/ 60 (1.38-1.97/ 2.36) |
| Accessories | | | | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) |

*) antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

***) antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas













Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 IPx9K | D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø6 x 5.8 IP68/ IPx9K | D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K | D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68 | D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø27 x 4 IP68/ IPx9K | D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø27 x 4 IP67 | D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø27 x 4 IP67/ IPx9K |
|--|--|---|---|--|---|---|--|--|
| RF310R RS422 6GT2801-1BA10 6GT2801-1BA10-0AX1 (90° plate) 6GT2801-1BA10-0AX2 (Ex) 6GT2 801-1BA20-0AX1 (Scanmode) |  Integrated 55 x 75 x 30 | | | | | 2-64/ 72 (0.08-2.52/ 2.83) | 2-64/ 72 (0.08-2.52/ 2.83) | 1-68/ 75 (0.04-2.68/ 2.95) |
| RF340R RS422 6GT2801-2BA10 6GT2801-2BA10-0AX2 (Ex) |  Integrated 75 x 75 x 41 | | | | | 2-60/ 75 (0.08-2.36/ 2.95) | 2-55/ 70 (0.08-2.17/ 2.76) | 2-55/ 70 (0.08-2.17/ 2.76) |
| RF350R ANT 1 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CB00 (ANT 1) |  75 x 75 x 20 | | | | | 2-65/ 85 (0.08-2.56/ 3.35) | 2-66/ 78 (0.08-2.60/ 3.07) | 2-75/ 88 (0.08-2.95/ 3.46) |
| RF350R ANT 3 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD40-0AX0 (ANT 3) |  28 x 50 x 10 | | | | 1-11/ 18 (0.04-0.43/ 0.71) | 1-35/ 42 (0.04-1.38/ 1.65) | 1-22/ 32 (0-0.04/ 1.26) | 1-40/ 48 (0.04-1.57/ 1.89) |
| RF350R ANT 3S RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD60-0AX0 (ANT 3S) |  28 x 50 x 10 | 0-2/ 3 (0.0-0.08/ 0.12) | 0-2/ 3 (0-0.08/ 0.12) | 0-4/ 5 (0-0.16/ 0.20) | | | | |
| RF350R ANT 12 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CC00 (ANT 12) ** |  Ø12 x 40 | 0-2/ 3 (0.0-0.08/ 0.12) | 0-3/ 4 (0-0.12/ 0.16) | 0-3/ 5 (0-0.12/ 0.20) | | | | |
| RF350R ANT 18 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CA00 (ANT 18) ** |  Ø18 x 55 | 1-5/ 6 (0.04-0.20/ 0.24) | 1-5/ 6 (0.04-0.20/ 0.24) | 0-6/ 8 (0-0.24/ 0.31) | 1-10/ 13 (0.04-0.39/ 0.51) | 2-24/ 28 (0.08-0.94/ 1.10) | 1-22/ 28 (0.04-0.87/ 1.1) | 1-27/ 35 (0.04-1.06/ 1.38) |
| Accessories | | | | | | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)




















| RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | D117 6GT2 600-0AG00 112 byte EEPROM  -40°C to 125°C Ø4 x 5.2 IP68 IPx9K | D127 6GT2 600-0AF00 112 byte EEPROM  -40°C to 125°C Ø 6 x 5.8 IP68/ IPx9K | D421 6GT2 600-4AE00 2 kbyte FRAM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K | D422 6GT2 600-4AF00 2 kbyte FRAM  -40°C to 100°C Ø20 x 6 IP68 | D124 6GT2 600-0AC10 112 byte EEPROM  -40°C to 180°C Ø 27 x 4 IP68/ IPx9K | D324 6GT2 600-3AC00 992 byte EEPROM  -40°C to 140°C Ø 27 x 4 IP67 | D424 6GT2 600-4AC00 2 kbyte FRAM  -40°C to 100°C Ø 27 x 4 IP67/ IPx9K |
|---|---|---|--|--|---|--|---|---|
| RF350R ANT 30 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD00 (ANT 30) *  |  Ø30 x 58 | | | | 0-14/ 16 (0-0.55/ 0.63) | 1-35/ 40 (0.04-1.38/ 1.57) | 1-35/ 40 (0.04-1.38/ 1.57) | 0-45/ 50 (0-1.77/ 1.97) |
| RF360R Ethernet 6GT2801-5BA30  | Integrated 141 x 80 x 42 | | | | | 2-60/ 75 (0.08-2.36/ 2.95) | 2-55/ 70 (0.08-2.17/ 2.76) | 2-55/ 70 (0.08-2.17/ 2.76) |
| RF380R RS422, RS232 6GT2801-3BA10 6GT2801-3BA10-0AX2 (Ex)  | Integrated 160 x 96 x 41 | | | | | 1-120/ 140 (0.04-4.72/ 5.51) | 2-96/ 120 (0.08-3.78/ 4.72) | 2-120/ 140 (0.08-4.72/ 5.51) |
| RF382R RS422, RS232 6GT2801-3AB20-0AX0  | Integrated 160 x 96 x 41 | | | | | 40-65/ 75 (1.57-2.56/ 2.95) | 40-65/ 75 (1.57-2.56/ 2.95) | 40-65/ 75 (1.57-2.56/ 2.95) |
| Accessories | | | | | | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) | Spacer (6GT2 690-0AK00) |

*) antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

***) antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas













Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 100°C Ø 50 x 3.6 IP68 | D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 | D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K | D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K | D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K | D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K | D339 6GT2600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K |
|---|--|---|---|---|--|---|--|---|
| RF310R RS422 6GT2801-1BA10 6GT2801-1BA10-0AX1 (90° plate) 6GT2801-1BA10-0AX2 (Ex) 6GT2 801-1BA20-0AX1 (Scanmode)  | Integrated 55 x 75 x 30 | 2-65/ 73 (0.08-2.56/ 2.87) | 5-75/ 90 (0.2-2.95/ 3.54) | 2-35/ 40 (0.08-1.37/ 1.57) | 1-22/ 25 (0.04-0.87/ 0.98) | 1-40/ 45 (0.08-1.57/ 1.77) | 5-96/ 109 (0.20-3.78/ 4.29) | 5-74/ 84 (0.20-2.91/ 3.31) |
| RF340R RS422 6GT2801-2BA10 6GT2801-2BA10-0AX2 (Ex)  | Integrated 75 x 75 x 41 | 2-85/ 110 (0.08-3.34/ 4.33) | 0-80/ 100 (0.0-3.15/ 3.94) | 5-40/ 48 (0.2-1.57/ 1.89) | 2-20/ 30 (0.08-0.79/ 1.18) | 2-40/ 50 (0.08-1.57/ 1.97) | 5-80/ 110 (0.20-3.15/ 4.33) | 5-75/ 85 (0.20-2.95/ 3.35) |
| RF350R ANT 1 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CB00 (ANT 1)  |  75 x 75 x 20 | 2-90/ 120 (0.08-3.54/ 4.72) | 2-85/ 95 (0.08-3.35/ 3.74) | 2-40/ 50 (0.08-1.57/ 1.97) | 2-23/ 32 (0.08-0.91/ 1.26) | 2-40/ 50 (0.08-1.57/ 1.97) | 5-85/ 115 (0.20-3.35/ 4.53) | 5-90/ 105 (0.20-3.54/ 4.13) |
| RF350R ANT 3 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD40-0AX0 (ANT 3)  |  28 x 50 x 10 | | | 5-20/ 30 (0.2-0.79/ 1.18) | 2-18/ 22 (0.08-0.71/ 0.87) | 2-28/ 30 (0.08-1.10/ 1.18) | | |
| RF350R ANT 3S RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD60-0AX0 (ANT 3S)  |  28 x 50 x 10 | | | | | | | |
| RF350R ANT 12 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CC00 (ANT 12) * **  |  Ø12 x 40 | | | | | 1-10/ 17 (0.04-0.39/ 0.67) | | |
| RF350R ANT 18 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CA00 (ANT 18) * **  |  Ø18 x 55 | | | | 1-10/ 14 (0.04-0.39/ 0.55) | 1-15/ 20 (0.04-0.59/ 0.79) | | |
| Accessories | | Spacer (6GT2 690-0AL00) | Spacer (6GT2 690-0AL00) | Mounting cover (6GT2 690-0AE00) | | | Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short) | |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)















| RF300 Family Matrix (ISO Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 100°C Ø 50 x 3.6 IP68 | D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 | D423 6GT2 600-4AA00 2 kbyte FRAM  -40°C to 100°C Ø 30 x 8 IP68/ IPx9K | D425 6GT2 600-4AG00 2 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68/ IPx9K | D428 6GT2 600-4AK00-0AX0 2 kbyte FRAM  -40°C to 125°C Ø 24 x 20 IP68/ IPx9K | D139 6GT2 600-0AA10 112 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K | D339 6GT2600-3AA10 992 byte EEPROM  -40°C to 220°C Ø 85 x 15 IP68/IPx9K |
|---|---|---|---|---|--|---|--|---|
| RF350R ANT 30 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD00 (ANT 30) *)  |  Ø30 x 58 | 1-42/ 50 (0-1.65/ 1.97) | 0-45/ 48 (0-1.77/ 1.89) | 1-38/ 40 (0.04-1.50/ 1.57) | 1-15/ 20 (0.04-0.59/ 0.79) | 1-25/ 28 (0.04-0.98/ 1.10) | | |
| RF360R Ethernet 6GT2801-5BA30  | Integrated 141 x 80 x 42 | 2-85/ 110 (0.08-3.35/ 4.33) | 1-80/ 100 (0.04-3.15/ 3.94) | | | | 5-80/ 110 (0.2-3.15/ 4.33) | 5-75/ 85 (0.2-2.95/ 3.35) |
| RF380R RS422, RS232 6GT2801-3BA10 6GT2801-3BA10-0AX2 (Ex)  | Integrated 160 x 96 x 41 | 2-145/ 190 (0.08-5.71/ 7.48) | 2-155/ 195 (0.08-6.1/ 7.68) | 5-75/ 90 (0.2-2.95/ 3.54) | 2-35/ 50 (0.08-1.38/ 1.97) | 2-70/ 95 (0.08-2.76/ 3.74) | 5-160/ 200 (0.20-6.30/ 7.87) | 5-160/ 180 (0.20-6.30/ 7.09) |
| RF382R RS422, RS232 6GT2801-3AB20-0AX0  | Integrated 160 x 96 x 41 | | | | | | | |
| Accessories | | Spacer (6GT2 690-0AL00) | Spacer (6GT2 690-0AL00) | Mounting cover (6GT2 690-0AE00) | | | Spacer (6GT2 690-0AA00) Mount for quick tag exchange (6GT2 690-0AH00 - long) (6GT2 690-0AH10 - short) | |

*) antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

***) antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)












| RF300 Family Matrix (8 KB ISO Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | D521 6GT2 600-5AE00 8 kByte FRAM  -40°C to 10°C Ø 10 x 4.5 IP67/IPx9K | D522 6GT2 600-5AF00 8 kByte FRAM  -40°C to 100°C Ø 20 x 6 IP68 | D524 6GT2 600-5AC00 8 kByte FRAM  -40°C to 100°C Ø 27 x 4 IP67 / IPx9k | D525 6GT2 600-5AG00 8 kByte FRAM  -40°C to 125°C Ø 24 x 10 IP68 / IPx9k | D526 6GT2 600-5AH00 8 kByte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 | D528 6GT2 600-5AK00 8 kByte FRAM  -40°C to 125°C Ø 24 x 20 IP68/IPx9K | D560 6GT2 600-5AB00 8 kByte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K |
|---|--|---|---|--|---|--|---|---|
| RF310R RS422 6GT2801-1BA10 6GT2801-1BA10-0AX1 (90° plate) 6GT2801-1BA10-0AX2 (Ex) |  Integrated 55 x 75 x 30 | | | 1...70/78 (0.04-2.76/ 3.07) | 1...22/25 (0.04-0.87/ 0.98) | 5...80/90 (0.2-3.14/ 3.54) | 1...43/48 (0.04-1.69/ 1.89) | 1...32/38 (0.04-1.26/ 1.5) |
| RF340R RS422 6GT2801-2BA10 6GT2801-2BA10-0AX2 (Ex) |  Integrated 75 x 75 x 41 | | | 2...55/70 (0.08-2.16/ 2.76) | 2...20/30 (0.08-0.79/ 1.18) | 0...80/100 (0-3.15/ 3.94) | 2...40/50 (0.08-1.57/ 1.97) | 2...25/40 (0.08-0.98/ 1.57) |
| RF350R ANT 1 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CB00 (ANT 1) |  75 x 75 x 20 | | | 2...65/85 (0.08-2.56/ 3.35) | 2...25/35 (0.08-0.98/ 1.38) | 0...85/105 (0-3.35/ 4.13) | 2...35/50 (0.08-1.38/ 1.97) | 2...32/38 (0.08-1.26/ 1.5) |
| RF350R ANT 3 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD40-0AX0 (ANT 3) |  28 x 50 x 10 | | 1...19/22 (0.04-0.75/ 0.87) | 5...52/56 (0.2-2.05/ 2.20) | 2...21/24 (0.08-0.83/ 0.94) | | 2...24/26 (0.08-0.94/ 1.02) | 1...20/28 (0.04-0.79/ 1.1) |
| RF350R ANT 3S RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD60-0AX0 (ANT 3S) |  28 x 50 x 10 | 0...3/4 (0-0.12/ 0.16) | | | | | | |
| RF350R ANT 12 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CC00 (ANT 12) *) **) |  Ø12 x 40 | 0...4/5 (0-0.16/ 0.2) | | | | | 1...16/17 (0.04-0.63/ 0.67) | 1...8/10 (0.04-0.31/ 0.39) |
| RF350R ANT 18 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CA00 (ANT 18) *) **) |  Ø18 x 55 | 0...6/8 (0-0.24/ 0.31) | 1...10/13 (0.04-0.39/ 0.51) | 1...27/35 (0.04-1.06/ 1.38) | 1...10/14 (0.04-0.39/ 0.55) | | 1...15/20 (0.04-0.59/ 0.79) | 1...12/16 (0.04-0.47/ 0.63) |
| Accessories | | | | Spacer (6GT2 690-0AK00) | | Spacer (6GT2 690-0AL00) | | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) |

*) antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

**) antennas also available with 60 cm antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

















| RF300 Family Matrix (8 KB ISO Tags) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | D521 6GT2 600-5AE00 8 kByte FRAM  -40°C to 10°C Ø 10 x 4.5 IP67/IPx9K | D522 6GT2 600-5AF00 8 kByte FRAM  -40°C to 100°C Ø 20 x 6 IP68 | D524 6GT2 600-5AC00 8 kByte FRAM  -40°C to 100°C Ø 27 x 4 IP67 / IPx9k | D525 6GT2 600-5AG00 8 kbyte FRAM  -40°C to 125°C Ø 24 x 10 IP68 / IPx9k | D526 6GT2 600-5AH00 8 kByte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 | D528 6GT2 600-5AK00 8 kByte FRAM  -40°C to 125°C Ø 24 x 20 IP68/IPx9K | D560 6GT2 600-5AB00 8 kByte FRAM  -40°C to 90°C Ø 16 x 3 IP68/IPx9K |
|--|---|---|---|--|---|--|---|---|
| RF350R ANT 30 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD00 (ANT 30) *)  |  Ø30 x 58 | | 1-19/ 22 (0.04-0.75/ 0.87) | 0-45/ 50 (0-1.77/ 1.97) | 1-15/ 20 (0.04-0.59/ 0.79) | 0-45/ 48 (0-1.77/ 1.89) | 1-25/ 28 (0.04-0.98/ 1.10) | 1-18/ 20 (0.04-0.71/ 0.79) |
| RF360R Ethernet 6GT2801-5BA30  | Integrated 141 x 80 x 42 | | | 2-55/ 70 (0.08-2.17/ 2.76) | | 1-80/ 100 (0.04-3.15/ 3.94) | | |
| RF380R RS422, RS232 6GT2801-3BA10 6GT2801-3BA10-0AX2 (Ex)  | Integrated 160 x 96 x 41 | | | 2-120/ 140 (0.08-4.72/ 5.51) | 2-35/ 50 (0.08-1.38/ 1.97) | 2-155/ 195 (0.08-6.10/ 7.68) | 2-70/ 95 (0.08-2.76/ 3.74) | 2-65/ 90 (0.08-2.56/ 3.54) |
| Accessories | | | | Spacer (6GT2 690-0AK00) | | Spacer (6GT2 690-0AL00) | | Spacer (6GT2 690-0AG00) Angle pattern body (6GT2690-0AN00) |

*) antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

***) antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)








| RF300 Family Matrix (MOBY E compatibility) 13.56 MHz Passive Tags Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | E600 6GT2 300-0AA00 752 byte EEPROM  -25°C to 60°C 86 x 54 x 0.76 IP68 | E611 6GT2 300-0BB00 752 byte EEPROM  -40°C to 85°C 86 x 54 x 2.5 IP67 | E623 6GT2 300-0CD00 752 byte EEPROM  -40°C to 100°C Ø10 x 4.5 IP67/ IPx9K | E624 6GT2 300-0CE00 752 byte EEPROM  -40°C to 150°C Ø 27 x 4 IP67/ IPx9K |
|--|---|--|---|---|--|
| RF310R RS422 6GT2801-1BA10 6GT2801-1BA10-0AX1 (90° plate) 6GT2801-1BA10-0AX2 (Ex)  | Integrated 55 x 75 x 30 | 2-30/ 43 (0.08-1.18/ 1.69) | 2-40/ 60 (0.08-1.57/ 2.36) | | 2-35/ 36 (0.08-1.37/ 1.42) |
| RF340R RS422 6GT2801-2BA10 6GT2801-2BA10-0AX2 (Ex)  | Integrated 75 x 75 x 41 | 5-50/ 65 (0.2-1.97/ 2.56) | 10-50/ 65 (0.39-1.97/ 2.56) | | 2-35/ 45 (0.08-1.37/ 1.77) |
| RF350R ANT 1 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CB00 (ANT 1)  |  75 x 75 x 20 | 10-50/ 60 (0.39-1.97/ 2.36) | 20-50/ 65 (0.79-1.97/ 2.56) | | 2-35/ 45 (0.08-1.37/ 1.77) |
| RF350R ANT 3 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD40-0AX0 (ANT 3)  |  28 x 50 x 10 | | | | 1-15/ 16 (0.04-0.59/ 0.63) |
| RF350R ANT 3S RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD60-0AX0 (ANT 3S)  |  28 x 50 x 10 | | | | |
| RF350R ANT 12 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CC00 (ANT 12) * **  |  Ø12 x 40 | | | 0-4/ 5 (0-0.16/ 0.20) | |
| RF350R ANT 18 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CA00 (ANT 18) * **  |  Ø18 x 55 | | | 0-6/ 8 (0-0.24/ 0.31) | 2-15/ 20 (0.08-0.59/ 0.79) |
| Accessories | | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | | Spacer (6GT2 690-0AK00) |

*) antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

**) antennas also available with 60 cm antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| | | | | | |
|--|---|--|---|---|--|
| <p>RF300 Family Matrix (MOBY E compatibility)</p> <p>13.56 MHz Passive Tags</p> <p>Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating</p> | <p>Antennas</p> | <p>E600 6GT2 300-0AA00 752 byte EEPROM</p>  <p>-25°C to 60°C 86 x 54 x 0.76 IP68</p> | <p>E611 6GT2 300-0BB00 752 byte EEPROM</p>  <p>-40°C to 85°C 86 x 54 x 2.5 IP67</p> | <p>E623 6GT2 300-0CD00 752 byte EEPROM</p>  <p>-40°C to 100°C Ø10 x 4.5 IP67/ IPx9K</p> | <p>E624 6GT2 300-0CE00 752 byte EEPROM</p>  <p>-40°C to 150°C Ø 27 x 4 IP67/ IPx9K</p> |
| <p>RF350R ANT 30 RS422 6GT2801-4BA10 6GT2801-4BA10-0AX2 (Ex) 6GT2 398-1CD00 (ANT 30) *</p>  |  <p>Ø30 x 58</p> | | | | <p>1-20/ 24 (0.04-0.79/ 0.94)</p> |
| <p>RF380R RS422, RS232 6GT2801-3BA10 6GT2801-3BA10-0AX2 (Ex)</p>  | <p>Integrated 160 x 96 x 41</p> | <p>10-80/ 95 (0.39-3.15/ 3.74)</p> | <p>10-115/ 135 (0.39-4.53/ 5.31)</p> | | <p>5-50/ 60 (0.20-1.97/ 2.36)</p> |
| <p>Accessories</p> | | <p>Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)</p> | <p>Holder (6GT2 390-0AA00) 20 mm spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)</p> | | <p>Spacer (6GT2 690-0AK00)</p> |

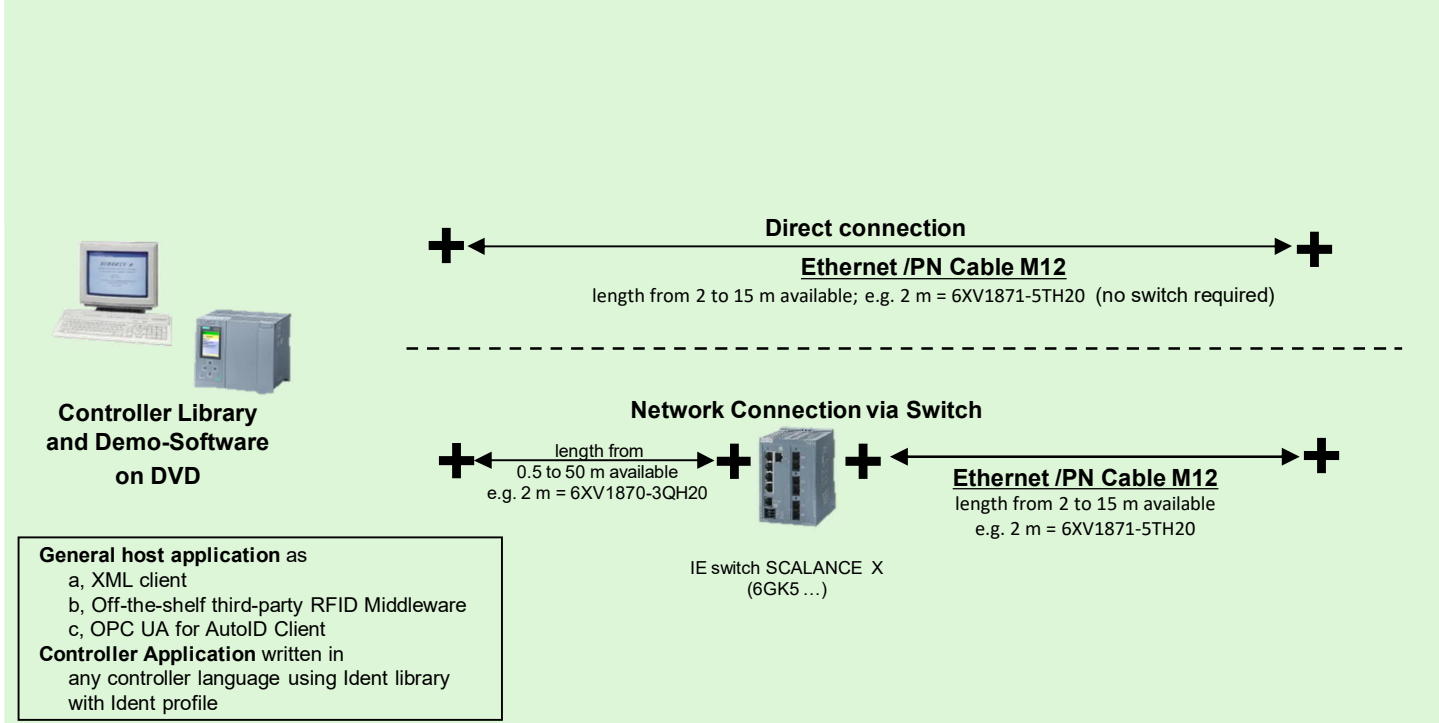
*) antennas also available in stainless steel: ANT12 (6GT2398-1DC10), ANT18 (6GT2398-1DA10), ANT30 (6GT2398-1DD10)

**) antennas also available with 0.6 m antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) or use 0.6 m antenna cable 6GT2391-0AE60 together with stainless steel antennas

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

PROFINET & OPC UA & TCP/IP



Reader with external power supply



RF360R
6GT2801-5BA30

Power supply

EU connector
6GT2 898-0AC00

UK connector
6GT2 898-0AC10

US connector
6GT2 898-0AC20

cable 24 V for power supply
5 m = 6GT2 091-0PH50

cable M12 L-coded
 180° = 6XV1801-6Dxxx*
 90° = 6XV1801-6Gxxx*

Cover caps
3RX9 802-0AA00

* More details on page 78

Tags

RF320T
(6GT2 800-1CA00)

RF330T
(6GT2 800-5BA00)

RF340T
(8 kb: 6GT2 800-4BB00)
(32 kb: 6GT2 800-5BB00)

RF350T
(6GT2 800-5BD00)

RF360T
(8 kb: 6GT2 800-4AC00)
(32 kb: 6GT2 800-5AC00)

RF370T
(32 kb: 6GT2 800-5BE00)
(64 kb: 6GT2 800-6BE00)

RF380T
(6GT2 800-5DA00)

ISO TAGs

- D100** 6GT2 600-0AD10
- D200** 6GT2 600-1AD00-0AX0
- D400** 6GT2 600-4AD00
- D124** 6GT2 600-0AC10
- D324** 6GT2 600-3AC00
- D424** 6GT2 600-4AC00
- D524** 6GT2 600-5AC00
- D126** 6GT2 600-0AE00
- D426** 6GT2 600-4AH00
- D526** 6GT2 600-5AH00
- D139** 6GT2 600-0AA10
- D339** 6GT2 600-3AA10

PROFINET & OPC UA & Ethernet/IP & TCP/IP

Communication Modules

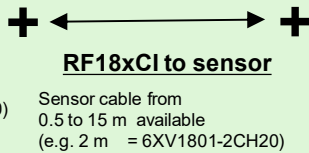


A maximum of
1 reader at RF185C,
2 readers at RF186C/CI,
4 readers at RF188C/CI
of RF3x0R may be connected

2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
 10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
 50 m = 6GT2 891-4FN50*

Reader connector 90° angled:
 2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
 10 m = 6GT2 891-4JN10

Additional IOs



Types of IO-Link IO module

IO-extension module
 6ES7 14..... (up to 8xDI + 8xDO)

See page 76 for detailed information

Or one
Standard sensor

Or one
Actor

Reader powered through connection cable



RF310R RS422
 6GT2 801-1BA10
 6GT2801-1BA10-0AX1 (90° plate)
 6GT2801-1BA10-0AX2 (Ex)



RF340R
 6GT2 801-2BA10
 6GT2801-2BA10-0AX2 (Ex)



RF350R
 6GT2 801-4BA10,
 /-4BA10-0AX2 (Ex)



RF380R
 6GT2 801-3BA10
 6GT2801-3BA10-0AX2 (Ex)

- ANT 1**
(6GT2 398-1CB00)
- ANT 3**
(6GT2 398-1CD40-0AX0)
- ANT 3S**
(6GT2 398-1CD60-0AX0)
- ANT 12**
(6GT2 398-1CC00)
(6GT2398-1DC10 steel)
- ANT 18**
(6GT2 398-1CA00)
(6GT2398-1DA10 steel)
- ANT 30**
(6GT2 398-1CD00)
(6GT2398-1DD10 steel)

Tags

RF320T
(6GT2 800-1CA00)

RF330T
(6GT2 800-5BA00)

RF340T
(8 kb: 6GT2 800-4BB00)
(32 kb: 6GT2 800-5BB00)

RF350T
(6GT2 800-5BD00)

RF360T
(8 kb: 6GT2 800-4AC00)
(32 kb: 6GT2 800-5AC00)

RF370T
(32 kb: 6GT2 800-5BE00)
(64 kb: 6GT2 800-6BE00)

RF380T
(6GT2 800-5DA00)

ISO TAGs

- D100** 6GT2 600-0AD10
- D200** 6GT2 600-1AD00-0AX0
- D400** 6GT2 600-4AD00
- D117** 6GT2 600-0AG00
- D421** 6GT2 600-4AE00
- D422** 6GT2 600-4AF00
- D423** 6GT2 600-4AA00
- D124** 6GT2 600-0AC10
- D324** 6GT2 600-3AC00
- D424** 6GT2 600-4AC00
- D425** 6GT2 600-4AG00
- D126** 6GT2 600-0AE00
- D426** 6GT2 600-4AH00
- D127** 6GT2 600-0AF00
- D428** 6GT2 600-4AK00-0AX0
- D139** 6GT2 600-0AA10
- D339** 6GT2 600-3AA10
- D160** 6GT2 600-0AB10
- D460** 6GT2 600-4AB00
- D560** 6GT2600-5AB00
- D261** 6GT2 600-1AA01-0AX0
- D165** 6GT2 600-1AB00-0AX0

SIMATIC PLC S7-1200



A maximum of 1 readers may be connected
RF120C to RF3x0R

- 2 m = 6GT2 091-4LH20 5 m = 6GT2 091-4LH50
- 10m = 6GT2 091-4LN10
- And extension cables:
- 2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
- 10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
- 50 m = 6GT2 891-4FN50
- 2 m = 6GT2 891-4JH20 Reader connector 90° angled
- 5 m = 6GT2 891-4JH50 Reader connector 90° angled
- 10 m = 6GT2 891-4JN10 Reader connector 90° angled

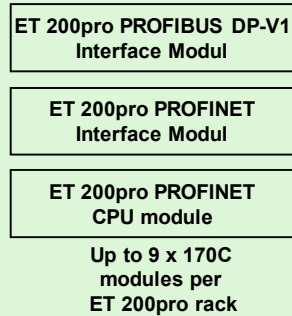
SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



A maximum of 2 Readers may be connected
ASM 475 to RF3x0R

- 2 m = 6GT2 891-4EH20 5 m = 6GT2 891-4EH50
- And Extension Cables:
- 2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
- 10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
- 50 m = 6GT2 891-4FN50
- 2 m = 6GT2 891-4JH20 Reader connector 90° angled
- 5 m = 6GT2 891-4JH50 Reader connector 90° angled
- 10 m = 6GT2 891-4JN10 Reader connector 90° angled

ET 200pro via PROFIBUS or PROFINET or S7 PLC



A maximum of 2 readers may be connected
RF170C to RF3x0R

- 2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
- 10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
- 50 m = 6GT2 891-4FN50
- Reader connector 90° angled
- 2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
- 10 m = 6GT2 891-4JN10

PROFIBUS



A maximum of 2 readers may be connected
RF166C to RF2x0R

- 2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
- 10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
- 50 m = 6GT2 891-4FN50*
- Reader connector 90° angled
- 2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
- 10 m = 6GT2 891-4JN10

Reader powered through connection cable



RF310R RS422
6GT2 801-1BA10
6GT2801-1BA10-0AX1 (90° plate)
6GT2801-1BA10-0AX2 (Ex)



RF340R
6GT2 801-2BA10
6GT2801-2BA10-0AX2 (Ex)



RF350R
6GT2 801-4BA10, /-4BA10-0AX2 (Ex)



RF380R
6GT2 801-3BA10
6GT2801-3BA10-0AX2 (Ex)

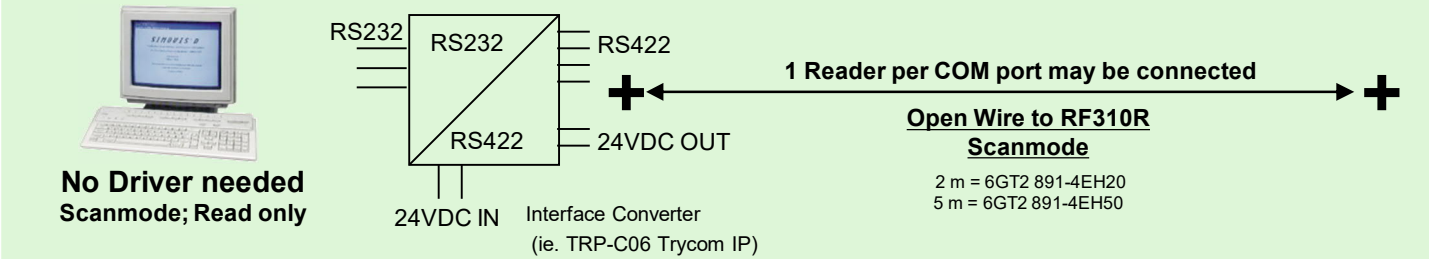
Tags



ISO TAGS

- D100** 6GT2 600-0AD10
- D200** 6GT2 600-1AD00-0AX0
- D400** 6GT2 600-4AD00
- D117** 6GT2 600-0AG00
- D421** 6GT2 600-4AE00
- D422** 6GT2 600-4AF00
- D423** 6GT2 600-4AA00
- D124** 6GT2 600-0AC10
- D324** 6GT2 600-3AC00
- D424** 6GT2 600-4AC00
- D425** 6GT2 600-4AG00
- D126** 6GT2 600-0AE00
- D426** 6GT2 600-4AH00
- D127** 6GT2 600-0AF00
- D428** 6GT2 600-4AK00-0AX0
- D139** 6GT2 600-0AA10
- D339** 6GT2 600-3AA10
- D160** 6GT2 600-0AB10
- D460** 6GT2 600-4AB00
- D560** 6GT2600-5AB00
- D261** 6GT2 600-1AA01-0AX0
- D165** 6GT2 600-1AB00-0AX0

RS232/RS422

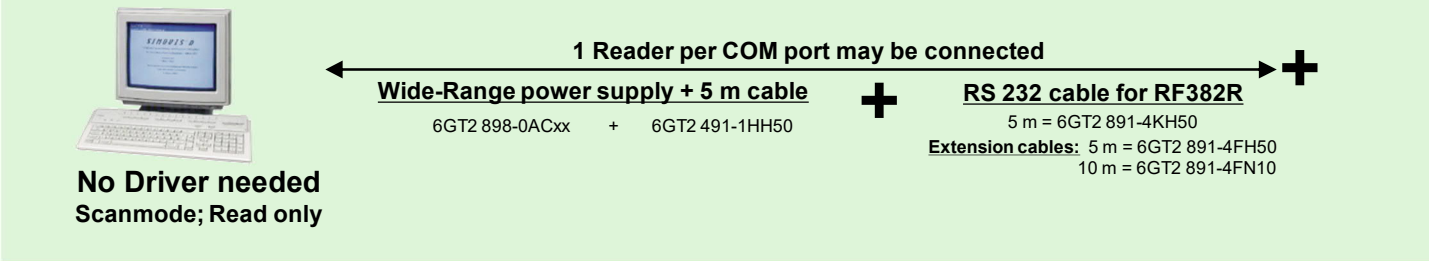


Reader
with external power supply

RF310R Scanmode
(6GT2 801-1BA20-0AX1)

- Tags**
- RF320T**
(6GT2 800-1CA00)
 - RF330T**
(6GT2 800-5BA00)
 - RF340T**
(8 kb: 6GT2 800-4BB00)
(32 kb: 6GT2 800-5BB00)
 - RF350T**
(6GT2 800-5BD00)
 - RF360T**
(8 kb: 6GT2 800-4AC00)
(32 kb: 6GT2 800-5AC00)
 - RF370T**
(32 kb: 6GT2 800-5BE00)
(64 kb: 6GT2 800-6BE00)
 - RF380T**
(6GT2 800-5DA00)
















RS232



Reader
with external power supply at Y-cable



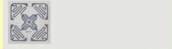
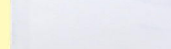
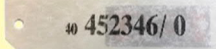










RF382R
(6GT2 801-3AB20-0AX0)

- ISO TAGs**
- D100** 6GT2 600-0AD10
 - D200** 6GT2 600-1AD00-0AX0
 - D400** 6GT2 600-4AD00
 - D117** 6GT2 600-0AG00
 - D421** 6GT2 600-4AE00
 - D422** 6GT2 600-4AF00
 - D423** 6GT2 600-4AA00
 - D124** 6GT2 600-0AC10
 - D324** 6GT2 600-3AC00
 - D424** 6GT2 600-4AC00
 - D425** 6GT2 600-4AG00
 - D126** 6GT2 600-0AE00
 - D426** 6GT2 600-4AH00
 - D127** 6GT2 600-0AF00
 - D428** 6GT2 600-4AK00-0AX0
 - D139** 6GT2 600-0AA10
 - D339** 6GT2 600-3AA10
 - D160** 6GT2 600-0AB10
 - D460** 6GT2 600-4AB00
 - D560** 6GT2600-5AB00
 - D261** 6GT2 600-1AA01-0AX0
 - D165** 6GT2 600-1AB00-0AX0


















| RF600 Family Matrix Labels 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | RF630L 6GT2 810-2AB02-0AX0 128 bits EPC, 64 byte  -40°C to 80°C 97 x 27 IP65 | RF630L 6GT2 810-2AE82-0AX0 .../-0AX1 /-0AX2 /-1AX0 /-2AX0 /-2AX1 128 bits EPC  -25°C to 160°C various sizes* IP67 | RF630L 6GT2 810-2AB03 96/240 bits EPC, 64 byte  -40°C to 80°C 54 x 34 IP65 | RF630L 6GT2 810-2AB04 256 bits EPC, 64 byte  -20°C to 160°C 74 x 27 IP60 | RF630L 6GT2810-2AB04-0AX1 448 bits EPC, 256 byte  -25°C to 130°C 101.6 x 50.8 IP67 | RF630L 6GT2 810-2AC84 448 bits EPC, 256 byte  -40°C to 85°C 73 x 12.5 IP67 |
|---|---|---|--|---|---|---|---|
| RF615R*** (IP67) (internal antenna used) 6GT2811-6CC10-0AA0 (ETSI) 6GT2811-6CC10-1AA0 (FCC) 6GT2811-6CC10-2AA0 (CMIIT)  RF610R*** (IP67) (internal antenna used) 6GT2811-6BC10-0AA0 (ETSI) 6GT2811-6BC10-1AA0 (FCC) 6GT2811-6BC10-2AA0 (CMIIT)  | Integrated 133 x 133 x 45 | 1.0 (39) | 0.8 (31) | 0.6 (24) | 0.6 (24) | 0.7 (28) | 0.5 (20) |
| RF615R*** (IP67) (external antenna used) 6GT2811-6CC10-0AA0 (ETSI) 6GT2811-6CC10-1AA0 (FCC) 6GT2811-6CC10-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-0AA00 RF660A, circular, (ETSI) 6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT) 6GT2 812-2GB08 RF680A, switchable, (all readers) | RF615A***  52 x 52 x 16 | 0.5 (20) | 0.4 (16) | 0.2 (8) | 0.2 (8) | 0.4 (16) | 0.2 (8) |
| | RF622A***  75 x 75 x 20 | 0.6 (24) | 0.4 (16) | 0.2 (8) | 0.2 (8) | 0.5 (20) | 0.2 (8) |
| | RF642A**  185 x 185 x 45 | 4.0 (157) | 3.0 (118) | 1.6 (63) | 1.8 (71) | 3.0 (118) | 3.0 (118) |
| | RF650A**  198 x 198 x 60 | 2.0 (79) | 1.4 (55) | 0.9 (35) | 0.8 (31) | 1.2 (47) | 1.6 (63) |
| | RF660A**  313 x 313 x 80 | 4.0 (157) | 3.0 (118) | 1.4 (55) | 1.6 (63) | 2.5 (98) | 3.0 (118) |
| | RF680A**  198 x 198 x 60 | 2.0 (79) | 1.6 (63) | 1.0 (39) | 1.0 (39) | 1.6 (63) | 1.6 (63) |
| Accessories | ** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00) | | | | | | |

Maximum operating distance (m) and maximum operating distance (inch)
 pay attention to the system manual for range overshoot

















* For detailed size information see technical data

| RF600 Family Matrix Labels 865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol) Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating | Antennas | RF630L 6GT2810-2AE83-0AX1 448 bit EPC, 256 Byte  -25°C to 130°C 105 x 25 IP67 | RF630L 6GT2810-2AE81-0AX3 448 bit EPC, 256 Byte  -40°C to 120°C 75 x 20 IP67 | RF635L 6GT2810-3AC80-1AX0 256 bit EPC, 60 byte  -25°C to 80°C 207,4 x 74 IP20 | RF642L 6GT2810-3AC00 (ETSI) 6GT2810-3AC10 (FCC) 448 bit EPC, 256 byte  -25°C to 85°C 50 x 22.5 x 1.6 IP68 | RF682L 6GT2810-2AG84-0AX0 448 bits EPC, 256 Byte  -40°C to 230°C 156 x 40 IP67 | RF690L 6GT2810-2AG00 (ETSI) 6GT2810-2AG10 (FCC) 96/480 bit EPC, 64 byte  -25°C to 160°C 88 x 25 x 1.6 75 x 25 x 1.6 IP67 |
|---|--|---|---|---|--|--|--|
| RF615R*** (IP67) (internal antenna used) 6GT2811-6CC10-0AA0 (ETSI) 6GT2811-6CC10-1AA0 (FCC) 6GT2811-6CC10-2AA0 (CMIIT)  RF610R*** (IP67) (internal antenna used) 6GT2811-6BC10-0AA0 (ETSI) 6GT2811-6BC10-1AA0 (FCC) 6GT2811-6BC10-2AA0 (CMIIT)  | Integrated 133 x 133 x 45 | 0.8 (31) | 0.5 (20) | 1.8 (71) | 0.8 (31) | 1.0 (39) | 0.2 (8) |
| RF615R*** (IP67) (external antenna used) 6GT2811-6CC10-0AA0 (ETSI) 6GT2811-6CC10-1AA0 (FCC) 6GT2811-6CC10-2AA0 (CMIIT)  Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-0AA00 RF660A, circular, (ETSI) 6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT) 6GT2 812-2GB08 RF680A, switchable, (all readers) | RF615A***  52 x 52 x 16 | 0.4 (16) | 0.2 (8) | 0.4 (16) | 0.2 (8) | 0.7 (28) | 0.1 (4) |
| | RF622A***  75 x 75 x 20 | 0.5 (20) | 0.2 (8) | 0.5 (20) | 0.4 (16) | 0.9 (35) | 0.1 (4) |
| | RF642A**  185 x 185 x 45 | 3.5 (138) | 3.0 (118) | 3.5 (138) | 2.0 (79) | 4.5 (177) | 0.3 (12) |
| | RF650A**  198 x 198 x 60 | 1.4 (55) | 1.6 (63) | 3.0 (118) | 0.8 (31) | 2.5 (98) | 0.1 (4) |
| | RF660A**  313 x 313 x 80 | 3.0 (118) | 3.0 (118) | 4.5 (177) | 1.8 (71) | 4.5 (177) | 0.3 (12) |
| | RF680A**  198 x 198 x 60 | 1.6 (63) | 1.6 (63) | 3.0 (118) | 1.0 (39) | 2.5 (98) | 0.1 (4) |
| Accessories | ** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00) | | | | | | |

Maximum operating distance (m) and maximum operating distance (inch)
 pay attention to the system manual for range overshoot





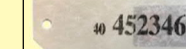








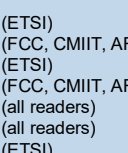



| <h2>RF600 Family Matrix Industrial Tags</h2> <p>865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol)</p> <p>Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating</p> | <h3>Antennas</h3> | <h4>RF610T</h4> <p>6GT2 810-2BB80 6GT2 810-2BB80-0AX1* 96/240 bit EPC, 64 byte</p>  <p>*Ex</p> <p>-40°C to 85°C 86 x 54 x 0.4 IP67</p> | <h4>RF620T</h4> <p>6GT2 810-2HC81 96/128 bit EPC, 64 byte</p>  <p>-40°C to 85°C 127 x 38 x 6 IP67</p> | <h4>RF625T</h4> <p>6GT2 810-2EE00 (ETSI) 6GT2 810-2EE01 (FCC) 96/128 bit EPC, 64 byte</p>  <p>-40°C to 125°C Ø 30 x 8 IP68/ IPx9K</p> | <h4>RF630T</h4> <p>6GT2 810-2EC00 (ETSI) 6GT2 810-2EC10 (FCC) 96/240 bit EPC, 64 byte</p>  <p>-40°C to 125°C Ø 21x 20 IP68/ IPx9K</p> | <h4>RF640T</h4> <p>6GT2 810-2DC00 (ETSI) 6GT2 810-2DC10 (FCC) 96/240 bit EPC, 64 byte</p>  <p>*Ex</p> <p>-40°C to 125°C Ø 50 x 8 IP68/ IPx9K</p> | <h4>RF645T</h4> <p>6GT2 810-2HC05 448 bit EPC, 256 byte</p>  <p>-40°C to 85°C 52 x 36 x 12,5 IP68</p> | <h4>RF680T</h4> <p>6GT2 810-2HG80 96/240 bit EPC, 64 byte</p>  <p>*Ex</p> <p>-40°C to 220°C 130 x 32 x 15 IP68/ IPx9K</p> | <h4>RF682T</h4> <p>6GT2810-3HG80 256 bit EPC, 384 byte</p>  <p>-40°C to 220°C 130 x 32 x 15 IP68/ IPx9K</p> |
|--|---|---|---|--|--|---|--|--|--|
| <h4>RF615R*** (IP67)</h4> <p>(internal antenna used)</p> <p>6GT2811-6CC10-0AA0 (ETSI) 6GT2811-6CC10-1AA0 (FCC) 6GT2811-6CC10-2AA0 (CMIIT)</p>  <h4>RF610R*** (IP67)</h4> <p>(internal antenna used)</p> <p>6GT2811-6BC10-0AA0 (ETSI) 6GT2811-6BC10-1AA0 (FCC) 6GT2811-6BC10-2AA0 (CMIIT)</p>  | <h3>Integrated</h3> <p>133 x 133 x 45</p> | <p>0.8 (31)</p> | <p>1.6 (63)</p> | <p>0.3 (12)</p> | <p>0.3 (12)</p> | <p>0.4 (16)</p> | <p>1.0 (39)</p> | <p>1.0 (39)</p> | <p>1.0 (39)</p> |
| <h4>RF615R*** (IP67)</h4> <p>(external antenna used)</p> <p>6GT2811-6CC10-0AA0 (ETSI) 6GT2811-6CC10-1AA0 (FCC) 6GT2811-6CC10-2AA0 (CMIIT)</p>  <p>Antennas:</p> <p>6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-0AA00 RF660A, circular, (ETSI) 6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT) 6GT2 812-2GB08 RF680A, switchable, (all readers)</p> | <p>RF615A***  52 x 52 x 16</p> <p>RF622A***  75 x 75 x 20</p> <p>RF642A**  185 x 185 x 45</p> <p>RF650A**  198 x 198 x 60</p> <p>RF660A**  313 x 313 x 80</p> <p>RF680A**  198 x 198 x 60</p> | <p>0.3 (12)</p> <p>0.4 (16)</p> <p>3.0 (118)</p> <p>1.2 (47)</p> <p>3.0 (118)</p> <p>1.4 (55)</p> | <p>1.0 (39)</p> <p>1.2 (47)</p> <p>4.0 (157)</p> <p>3.5 (138)</p> <p>4.0 (157)</p> <p>4.0 (157)</p> | <p>0.1 (4)</p> <p>0.1 (4)</p> <p>1.0 (39)</p> <p>0.2 (8)</p> <p>0.8 (31)</p> <p>0.2 (8)</p> | <p>0.1 (4)</p> <p>0.2 (8)</p> <p>0.5 (20)</p> <p>0.4 (16)</p> <p>1.0 (39)</p> <p>0.5 (20)</p> | <p>0.2 (8)</p> <p>0.2 (8)</p> <p>1.4 (55)</p> <p>0.7 (28)</p> <p>1.2 (47)</p> <p>1.2 (47)</p> | <p>0.7 (28)</p> <p>0.9 (35)</p> <p>3.0 (118)</p> <p>1.6 (63)</p> <p>3.5 (138)</p> <p>1.8 (71)</p> | <p>0.6 (24)</p> <p>0.7 (28)</p> <p>4.0 (157)</p> <p>1.8 (71)</p> <p>4.0 (157)</p> <p>2.0 (79)</p> | <p>0.4 (16)</p> <p>0.4 (16)</p> <p>2.5 (98)</p> <p>1.2 (47)</p> <p>2.0 (79)</p> <p>1.2 (47)</p> |
| <h3>Accessories</h3> | <p>** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)</p> | <p>20 mm Spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00)</p> | <p>Spacer (6GT2 898-2AA00)</p> | | | | <p>Mounting cover 6GT2898-5AA00 Retaining bracket 6GT2898-5AB00</p> | <p>Retaining bracket 6GT2890-2AA00</p> | <p>Retaining bracket 6GT2890-2AA00</p> |

Maximum operating distance (m) and maximum operating distance (inch)
pay attention to the system manual for range overshoot

| <h2>RF600 Family Matrix Labels</h2> <p>865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol)</p> <p>Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating</p> | <h3>Antennas</h3> | <h4>RF630L</h4> <p>6GT2 810-2AB02-0AX0 128 bits EPC, 64 byte</p>  <p>-40°C to 80°C 97 x 27 IP65</p> | <h4>RF630L</h4> <p>6GT2 810-2AE82-0AX0 .../-0AX1/-0AX2/-1AX0 /-2AX0/-2AX1 128 bits EPC</p>  <p>-25°C to 160°C various sizes* IP67</p> | <h4>RF630L</h4> <p>6GT2 810-2AB03 96/240 bits EPC, 64 byte</p>  <p>-40°C to 80°C 54 x 34 IP65</p> | <h4>RF630L</h4> <p>6GT2 810-2AB04 256 bits EPC, 64 byte</p>  <p>-20°C to 160°C 74 x 27 IP60</p> | <h4>RF630L</h4> <p>6GT2810-2AB04-0AX1 448 bits EPC, 256 byte</p>  <p>-25°C to 130°C 101.6 x 50.8 IP67</p> | <h4>RF630L</h4> <p>6GT2 810-2AC84 448 bits EPC, 256 byte</p>  <p>-40°C to 85°C 73 x 12,5 IP67</p> |
|---|---|--|---|--|--|--|--|
| <h4>RF685R** (IP65)</h4> <p>(internal antenna used)</p> <p>6GT2811-6CA10-0AA0 (ETSI) 6GT2811-6CA10-1AA0 (FCC) 6GT2811-6CA10-2AA0 (CMIIT) 6GT2811-6CA10-4AA0 (ARIB)</p>  | <h4>Integrated</h4> <p>260 x 193 x 52</p> | 6.0 (236) | 5.0 (197) | 3.0 (118) | 3.5 (138) | 5.0 (197) | 5.0 (197) |
| <h4>RF685R** (IP65)</h4> <p>(external antenna used)</p> <p>6GT2811-6CA10-0AA0 (ETSI) 6GT2811-6CA10-1AA0 (FCC) 6GT2811-6CA10-2AA0 (CMIIT) 6GT2811-6CA10-4AA0 (ARIB)</p>  | <p>RF615A***</p>  <p>52 x 52 x 16</p> | 1.8 / *1.2 (71 / *47) | 1.2 / *0.8 (47 / *31) | 0.7 / *0.5 (28 / *20) | 0.8 / *0.6 (31 / *24) | 1.2 / *0.7 (47 / *28) | 1.4 / *1.0 (55 / *39) |
| <h4>RF680R** (IP65)</h4> <p>6GT2811-6AA10-0AA0 (ETSI) 6GT2811-6AA10-1AA0 (FCC) 6GT2811-6AA10-2AA0 (CMIIT) 6GT2811-6AA10-4AA0 (ARIB)</p>  | <p>RF622A***</p>  <p>75 x 75 x 20</p> | 1.8 / *1.2 (71 / *47) | 1.2 / *0.8 (47 / *31) | 0.8 / *0.5 (31 / *20) | 0.9 / *0.7 (35 / *28) | 1.2 / *0.8 (47 / *31) | 1.4 / *1.0 (55 / *39) |
| <h4>RF650R** (IP30)</h4> <p>6GT2811-6AB20-0AA0 (ETSI) 6GT2811-6AB20-1AA0 (FCC) 6GT2811-6AB20-2AA0 (CMIIT) 6GT2811-6AB20-4AA0 (ARIB)</p>  | <p>RF642A**</p>  <p>185 x 185 x 45</p> | 5.0 (197) | 5.0 / *4.5 (197 / *177) | 3.0 (118) | 3.5 (138) | 5.0 / *4.0 (197 / *157) | 5.0 (197) |
| <p>Antennas:</p> <p>6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-0AA00 RF660A, circular, (ETSI) 6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT, ARIB) 6GT2 812-2GB08 RF680A, switchable (all readers)</p> | <p>RF650A**</p>  <p>198 x 198 x 60</p> | 4.0 / *3.0 (157 / *118) | 3.0 / *2.0 (118 / *79) | 1.8 / *1.4 (71 / *55) | 2.5 / *1.8 (98 / *71) | 3.0 / *2.0 (118 / *79) | 3.5 / *2.5 (138 / *98) |
| <h4>Accessories</h4> | <p>RF660A**</p>  <p>313 x 313 x 80</p> | 5.0 (197) | 4.0 (157) | 2.5 (98) | 3.0 (118) | 4.0 / *3.5 (157 / *138) | 4.0 (157) |
| | <p>RF680A**</p>  <p>198 x 198 x 60</p> | 4.5 / *3.0 (177 / *118) | 3.5 / *2.0 (138 / *79) | 1.8 / *1.4 (71 / *55) | 2.5 / *1.8 (98 / *71) | 3.5 / *2.0 (138 / *79) | 3.5 / *2.5 (138 / *98) |
| | <p>** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)</p> | | | | | | |
















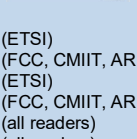

Maximum operating distance (m) and maximum operating distance (inch)
pay attention to the system manual for range overshoot

* Use this value in combination with RF650R

| <h2>RF600 Family Matrix Labels</h2> <p>865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol)</p> <p>Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating</p> | <h3>Antennas</h3> | RF630L 6GT2810-2AE83-0AX1 448 bit EPC, 256 Byte  -25°C to 130°C 105 x 25 IP67 | RF630L 6GT2810-2AE81-0AX3 448 bit EPC, 256 Byte  -40°C to 120°C 75 x 20 IP67 | RF635L 6GT2810-3AC80-1AX0 256 bit EPC, 60 byte  -25°C to 80°C 207,4 x 74 IP20 | RF642L 6GT2810-3AC00 (ETSI) 6GT2810-3AC10 (FCC) 448 bit EPC, 256 byte  -25°C to 85°C 50 x 22.5 x 1.6 IP68 | RF682L 6GT2810-2AG84-0AX0 448 bits EPC, 256 Byte  -40°C to 230°C 156 x 40 IP67 | RF690L 6GT2810-2AG00 (ETSI) 6GT2810-2AG10 (FCC) 96/496 bit EPC, 64 byte  -25°C to 160°C 88 x 25 x 1.6 75 x 25 x 1.6 IP67 | |
|--|---|---|---|---|---|--|---|-------------|
| RF685R** (IP65) (internal antenna used)  6GT2811-6CA10-0AA0 (ETSI) 6GT2811-6CA10-1AA0 (FCC) 6GT2811-6CA10-2AA0 (CMIIT) 6GT2811-6CA10-4AA0 (ARIB) | Integrated 260 x 193 x 52 | 5.0 (197) | 5.0 (197) | 6.0 (236) | 2.0 (79) | 6.0 (236) | 3.0 (118) | |
| RF685R** (IP65) (external antenna used)  6GT2811-6CA10-0AA0 (ETSI) 6GT2811-6CA10-1AA0 (FCC) 6GT2811-6CA10-2AA0 (CMIIT) 6GT2811-6CA10-4AA0 (ARIB) | RF615A***  52 x 52 x 16 | 1.2 / *0.7 (47 / *28) | 1.4 / *1.0 (55 / *39) | 1.2 / *0.8 (47 / *31) | 0.5 / *0.4 (20 / *16) | 1.6 / *1.2 (63 / *47) | 0.2 / *0.2 (8 / *8) | |
| RF680R** (IP65)  6GT2811-6AA10-0AA0 (ETSI) 6GT2811-6AA10-1AA0 (FCC) 6GT2811-6AA10-2AA0 (CMIIT) 6GT2811-6AA10-4AA0 (ARIB) | RF622A***  75 x 75 x 20 | 1.2 / *0.8 (47 / *31) | 1.4 / *1.0 (55 / *39) | 1.4 / *0.9 (47 / *35) | 0.5 / *0.4 (20 / *16) | 1.8 / *1.2 (71 / *47) | 0.3 / *0.2 (12 / *8) | |
| RF650R** (IP30)  6GT2811-6AB20-0AA0 (ETSI) 6GT2811-6AB20-1AA0 (FCC) 6GT2811-6AB20-2AA0 (CMIIT) 6GT2811-6AB20-4AA0 (ARIB) | RF642A**  185 x 185 x 45 | 5.0 (197) | 5.0 (197) | 5.0 (197) | 2.0 (79) | 6.0 (236) | 2.0 (79) | |
| RF650R** (IP30)  6GT2811-6AB20-0AA0 (ETSI) 6GT2811-6AB20-1AA0 (FCC) 6GT2811-6AB20-2AA0 (CMIIT) 6GT2811-6AB20-4AA0 (ARIB) | RF650A**  198 x 198 x 60 | 3.5 / *2.0 (138 / *79) | 3.5 / *2.5 (138 / *98) | 5.0 / *4.0 (197 / *157) | 1.6 / *1.2 (63 / *47) | 4.0 / *3.0 (157 / *118) | 3.5 / *3.0 (138 / *118) | |
| Accessories | Antennas: 6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-0AA00 RF660A, circular, (ETSI) 6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT, ARIB) 6GT2 812-2GB08 RF680A, switchable (all readers) | RF660A**  313 x 313 x 80 | 4.0 (157) | 4.0 (157) | 5.0 (197) | 1.6 (63) | 5.0 (197) | 1.4 (55) |
| | RF680A**  198 x 198 x 60 | 4.0 / *2.5 (157 / *98) | 3.5 / *2.5 (138 / *98) | 6.0 / *4.5 (236 / *177) | 1.6 / *1.2 (63 / *47) | 5.0 / *3.0 (197 / *118) | 1.4 / *0.9 (55 / *35) | |
| | ** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00) | | | | | | | |

Maximum operating distance (m) and maximum operating distance (inch)
pay attention to the system manual for range overshoot

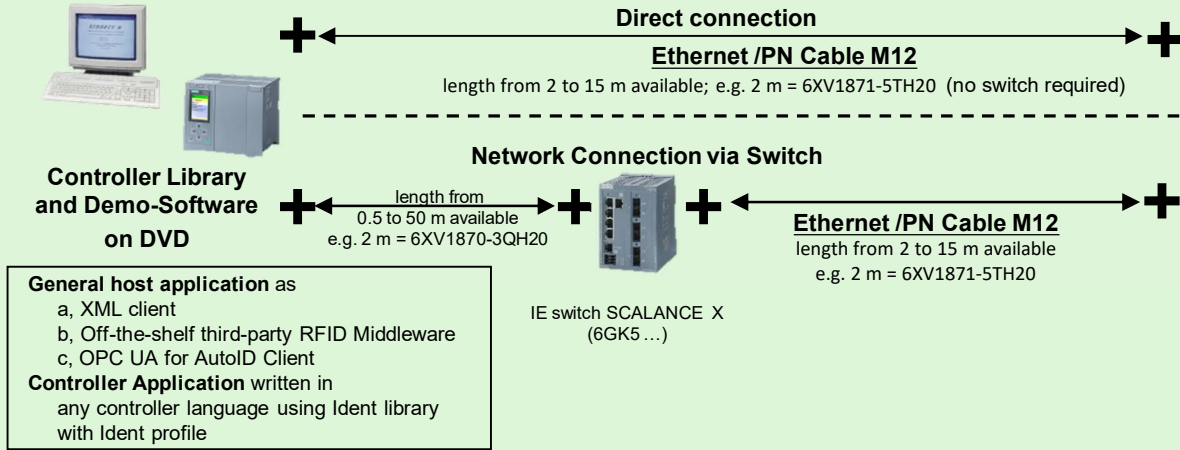
* Use this value in combination with RF650R

| <h2>RF600 Family Matrix Industrial Tags</h2> <p>865-868 MHz (ETSI) 902-928 MHz (FCC) Passive Tags (with Gen2 protocol)</p> <p>Operational Temperature Range Dimensions (L x W x D) mm Ingress Protection (IP) Rating</p> | <h3>Antennas</h3> | <h4>RF610T</h4> <p>6GT2 810-2BB80 6GT2 810-2BB80-0AX1* 96/240 bit EPC, 64 byte</p>  <p>-40°C to 85°C 86 x 54 x 0.4 IP67</p> | <h4>RF620T</h4> <p>6GT2 810-2HC81 96/128 bit EPC, 64 byte</p>  <p>-40°C to 85°C 127 x 38 x 6 IP67</p> | <h4>RF625T</h4> <p>6GT2 810-2EE00 (ETSI) 6GT2 810-2EE01 (FCC) 96/128 bit EPC, 64 byte</p>  <p>-40°C to 125°C Ø 30 x 8 IP68/ IPx9K</p> | <h4>RF630T</h4> <p>6GT2 810-2EC00 (ETSI) 6GT2 810-2EC10 (FCC) 96/240 bit EPC, 64 byte</p>  <p>-40°C to 125°C Ø 21x 20 IP68/ IPx9K</p> | <h4>RF640T</h4> <p>6GT2 810-2DC00 (ETSI) 6GT2 810-2DC10 (FCC) 96/240 bit EPC, 64 byte</p>  <p>-40°C to 125°C Ø 50 x 8 IP68/ IPx9K</p> | <h4>RF645T</h4> <p>6GT2 810-2HC05 448 bit EPC, 256 byte</p>  <p>-40°C to 85°C 52 x 36 x 12,5 IP68</p> | <h4>RF680T</h4> <p>6GT2 810-2HG80 96/240 bit EPC, 64 byte</p>  <p>-40°C to 220°C 130 x 32 x 15 IP68/ IPx9K</p> | <h4>RF682T</h4> <p>6GT2810-3HG80 224 bit EPC, 384 byte</p>  <p>-40°C to 220°C 130 x 32 x 15 IP68/ IPx9K</p> |
|---|--|--|---|--|--|--|--|---|--|
| <h4>RF685R** (IP65)</h4> <p>(internal antenna used)</p> <p>6GT2811-6CA10-0AA0 (ETSI) 6GT2811-6CA10-1AA0 (FCC) 6GT2811-6CA10-2AA0 (CMIIT) 6GT2811-6CA10-4AA0 (ARIB)</p>  | <h3>Integrated</h3> <p>260 x 193 x 52</p> | 5.0 (197) | 7.0 (276) | 2.0 (79) | 2.0 (79) | 3.5 (138) | 6.0 (236) | 5.0 (197) | 4.0 (157) |
| <h4>RF685R** (IP65)</h4> <p>(external antenna used)</p> <p>6GT2811-6CA10-0AA0 (ETSI) 6GT2811-6CA10-1AA0 (FCC) 6GT2811-6CA10-2AA0 (CMIIT) 6GT2811-6CA10-4AA0 (ARIB)</p>  | <p>RF615A***  52 x 52 x 16</p> | 1.2 / *0.9 (47 / *35) | 2.5 / *1.8 (98 / *71) | 0.5 / *0.3 (20 / *12) | 0.5 / *0.4 (20 / *16) | 0.8 / *0.6 (31 / *24) | 1.8 / *1.2 (71 / *47) | 1.4 / *1.0 (55 / *39) | 1.0 / *0.7 (39 / *28) |
| <h4>RF680R** (IP65)</h4> <p>6GT2811-6AA10-0AA0 (ETSI) 6GT2811-6AA10-1AA0 (FCC) 6GT2811-6AA10-2AA0 (CMIIT) 6GT2811-6AA10-4AA0 (ARIB)</p>  | <p>RF622A***  75 x 75 x 20</p> | 1.4 / *0.9 (55 / *35) | 2.5 / *1.8 (98 / *71) | 0.5 / *0.4 (20 / *16) | 0.5 / *0.4 (20 / *16) | 1.0 / *0.7 (39 / *28) | 2.0 / *1.4 (79 / *55) | 1.6 / *1.2 (63 / *47) | 1.2 / *0.8 (47 / *31) |
| <h4>RF650R** (IP30)</h4> <p>6GT2811-6AB20-0AA0 (ETSI) 6GT2811-6AB20-1AA0 (FCC) 6GT2811-6AB20-2AA0 (CMIIT) 6GT2811-6AB20-4AA0 (ARIB)</p>  | <p>RF642A**  185 x 185 x 45</p> | 4.5 (177) | 8.0 (315) | 1.8 (71) | 2.0 (79) | 4.0 / *2.5 (157 / *98) | 6.0 (236) | 5.0 (197) | 4.5 (177) |
| <h4>RF650R** (IP30)</h4> <p>6GT2811-6AB20-0AA0 (ETSI) 6GT2811-6AB20-1AA0 (FCC) 6GT2811-6AB20-2AA0 (CMIIT) 6GT2811-6AB20-4AA0 (ARIB)</p> <p>Antennas:</p> <p>6GT2 812-0EA00 RF615A, linear, (ETSI) 6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB) 6GT2 812-2EA00 RF622A, linear, (ETSI) 6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB) 6GT2 812-1GA08 RF642A, linear, (all readers) 6GT2 812-0GB08 RF650A, circular, (all readers) 6GT2 812-0AA00 RF660A, circular, (ETSI) 6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT, ARIB) 6GT2 812-2GB08 RF680A, switchable (all readers)</p>  | <p>RF650A**  198 x 198 x 60</p> | 3.0 / *2.0 (118 / *79) | 5.0 / *4.0 (197 / *157) | 1.4 / *1.0 (55 / *39) | 1.2 / *0.9 (47 / *35) | 2.5 / *2.0 (98 / *79) | 5.0 / *3.5 (197 / *138) | 4.0 / *3.0 (157 / *118) | 2.5 / *2.0 (98 / *79) |
| <h3>Accessories</h3> | <p>** 3-way mounting kit (6GT2 890-2AB10) *** mounting plate (6GT2890-2AC00)</p> | 20 mm Spacer (6GT2 190-0AA00) Fixing pocket (6GT2 190-0AB00) | Spacer (6GT2 898-2AA00) | | | | Mounting cover 6GT2898-5AA00 Retaining bracket 6GT2898-5AB00 | Retaining bracket 6GT2890-2AA00 | Retaining bracket 6GT2890-2AA00 |

Maximum operating distance (m) and maximum operating distance (inch)
pay attention to the system manual for range overshoot

* Use this value in combination with RF650R

PROFINET & OPC UA & Ethernet/IP & TCP/IP



Reader

Connection with external power supply



RF610R
 (only internal antenna)
 6GT2811-6BC10-0AA0 (ETSI)
 6GT2811-6BC10-1AA0 (FCC)
 6GT2811-6BC10-2AA0 (CMIIT)



RF615R
 (internal antenna and optional 1 ext. antenna)
 6GT2811-6CC10-0AA0 (ETSI)
 6GT2811-6CC10-1AA0 (FCC)
 6GT2811-6CC10-2AA0 (CMIIT)

Power supply

EU connector
 6GT2 898-0AC00

UK connector
 6GT2 898-0AC10

US connector
 6GT2 898-0AC20
 cable 24 V for power supply
 5 m = 6GT2 891-0PH50

cable w/ open ends
 2 m = 6GT2 891-4EH20
 5 m = 6GT2 891-4EH50

External antennas:

RF615A
 6GT2 812-0EA00; ETSI
 6GT2 812-0EA01; FCC, etc.

RF622A
 6GT2812-2EA00, ETSI
 6GT2812-2EA01, FCC, etc.

RF642A
 6GT2 812-1GA08

RF650A
 6GT2 812-0GB08

RF660A
 6GT2 812-0AA00, ETSI
 6GT2 812-0AA01, FCC, etc.

RF680A
 6GT2 812-2GB08

Antenna Cable

1m = 6GT2815-0BH10
 3m = 6GT2 815-0BH30
 5m, flex = 6GT2 815-2BH50
 10m, 2dB = 6GT2 815-1BN10
 10m, 4dB = 6GT2 815-0BN10
 15m, flex = 6GT2 815-2BN15
 20m = 6GT2 815-0BN20
 40m = 6GT2 815-0BN40

Power Splitter
 6GT2 890-0BC00

DI/DO interface
 Use a M12 A-coded connector
 3RK1902-4BA00-5AA0

Cover caps
 6GT2898-4AA10

Powered through connection cable

Opt.: 3-way mounting kit
 6GT2890-2AB10

Opt.: Mounting plate
 6GT2890-2AC00

Labels

- RF630L**
 6GT2 810-2AB02-0AX0
 6GT2 810-2AE82-xxxx
 6GT2810-2AB04-0AX1
 6GT2810-2AB04
 6GT2810-2AC82
 6GT2810-2AC84
 6GT2810-2AE83-0AX1
 6GT2 810-2AE81-0AX3
- RF635L**
 6GT2810-3AC80-1AX0
- RF642L**
 6GT2 810-3AC00 (ETSI)
 6GT2 810-3AC10 (FCC)
- RF682L**
 6GT2810-2AG84-0AX0
- RF690L**
 6GT2 810-2AG00 (ETSI)
 6GT2 810-2AG10 (FCC)

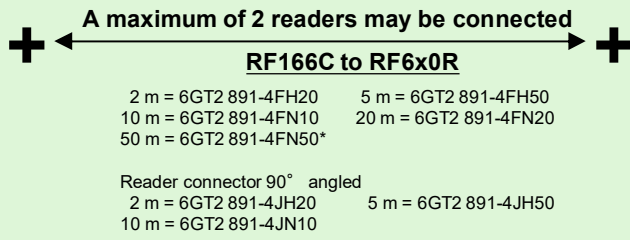
Tags

- RF610T**
 6GT2 810-2BB80
 6GT2 810-2BB80-0AX1
- RF620T**
 6GT2 810-2HC81
- RF625T**
 6GT2 810-2EE00 (ETSI)
 6GT2 810-2EE01 (FCC)
- RF630T**
 6GT2 810-2EC00 (ETSI)
 6GT2 810-2EC10 (FCC)
- RF640T Gen2**
 6GT2 810-2DC00 (ETSI)
 6GT2 810-2DC10 (FCC)
- RF645T**
 6GT2 810-2HC05
- RF680T**
 6GT2 810-2HG80
- RF682T**
 6GT2 810-3HG80

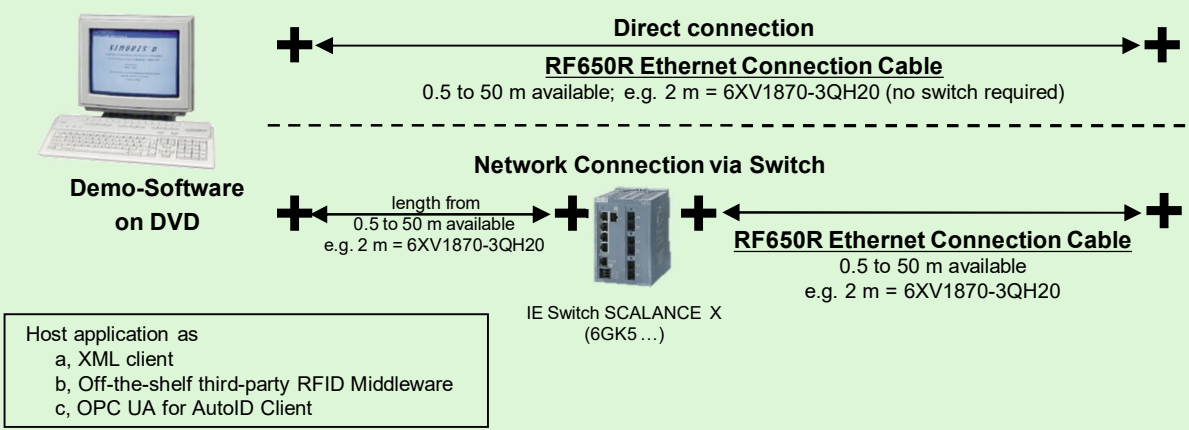
PROFIBUS



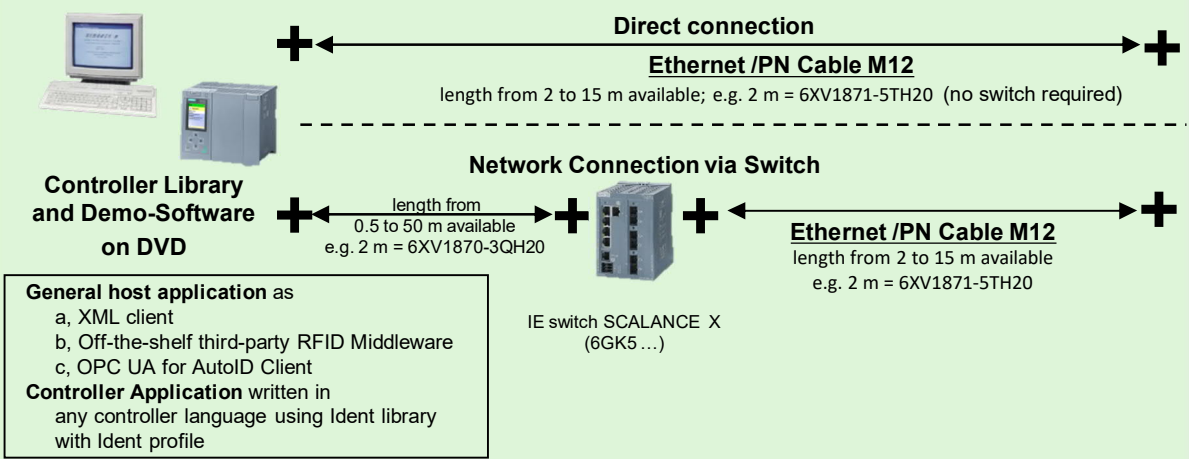
RF166C (DP-V1)
 Communication Module
 (6GT2 002-0EE20)



Ethernet TCP/IP



PROFINET & OPC UA & Ethernet/IP & TCP/IP



Reader

with external power supply



RF650R
(1 to 4 ext. antennas)

- 6GT2811-6AB20-0AA0 (ETSI)
- 6GT2811-6AB20-1AA0 (FCC)
- 6GT2811-6AB20-2AA0 (CMIIT)
- 6GT2811-6AB20-4AA0 (ARIB)



RF680R
(1 to 4 ext. antennas)

- 6GT2811-6AA10-0AA0 (ETSI)
- 6GT2811-6AA10-1AA0 (FCC)
- 6GT2811-6AA10-2AA0 (CMIIT)
- 6GT2811-6AA10-4AA0 (ARIB)



RF685R
(internal antenna and optional 1 ext. antenna)

- 6GT2811-6CA10-0AA0 (ETSI)
- 6GT2811-6CA10-1AA0 (FCC)
- 6GT2811-6CA10-2AA0 (CMIIT)
- 6GT2811-6CA10-4AA0 (ARIB)

Cover caps
(6GT2898-4AA10)

RF615A

- 6GT2 812-0EA00; ETSI
- 6GT2 812-0EA01; FCC, etc.

RF622A

- 6GT2812-2EA00, ETSI
- 6GT2812-2EA01, FCC, etc.

RF642A

- 6GT2 812-1GA08

RF650A

- 6GT2 812-0GB08

RF660A

- 6GT2 812-0AA00, ETSI
- 6GT2 812-0AA01, FCC, etc.

RF680A

- 6GT2 812-2GB08

Antenna Mounting kit

- 6GT2 890-2AB10

Antenna Cable

- 1m = 6GT2815-0BH10
- 3m = 6GT2 815-0BH30
- 5m, flex = 6GT2 815-2BH50
- 10m,2dB = 6GT2 815-1BN10
- 10m,4dB = 6GT2 815-0BN10
- 15m,flex = 6GT2 815-2BN15
- 20m = 6GT2 815-0BN20
- 40m = 6GT2 815-0BN40

Power Splitter

- 6GT2 890-0BC00
- (do not use with RF680A)

Power supply

EU connector

- 6GT2 898-0AC00

UK connector

- 6GT2 898-0AC10

US connector

- 6GT2 898-0AC20

cable 24 V for power supply

- 5 m = 6GT2 891-0PH50

cable w/ open ends

- 2 m = 6GT2 891-4EH20
- 5 m = 6GT2 891-4EH50

optional

DI/DO cable 5m

- 6GT2891-0CH50

3-way mounting kit

- 6GT2890-2AB10

Mounting plate

- 6GT2890-2AC00

Rail mounting set

- 6GT2890-0AB00

Labels

RF630L

- 6GT2 810-2AB02-0AX0
- 6GT2 810-2AE82-xxxx
- 6GT2810-2AB04-0AX1
- 6GT2810-2AB04
- 6GT2810-2AC82
- 6GT2810-2AC84
- 6GT2810-2AE83-0AX1
- 6GT2 810-2AE81-0AX3

RF635L

- 6GT2810-3AC80-1AX0

RF642L

- 6GT2 810-3AC00 (ETSI)
- 6GT2 810-3AC10 (FCC)

RF682L

- 6GT2810-2AG84-0AX0

RF690L

- 6GT2 810-2AG00 (ETSI)
- 6GT2 810-2AG10 (FCC)

Tags



RF610T

- 6GT2 810-2BB80
- 6GT2 810-2BB80-0AX1



RF620T

- 6GT2 810-2HC81



RF625T

- 6GT2 810-2EE00 (ETSI)
- 6GT2 810-2EE01 (FCC)



RF630T

- 6GT2 810-2EC00 (ETSI)
- 6GT2 810-2EC10 (FCC)



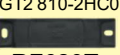
RF640T Gen2

- 6GT2 810-2DC00 (ETSI)
- 6GT2 810-2DC10 (FCC)



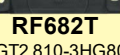
RF645T

- 6GT2 810-2HC05



RF680T

- 6GT2 810-2HG80



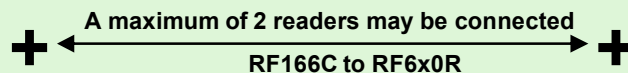
RF682T

- 6GT2 810-3HG80

PROFIBUS



RF166C (DP-V1)
Communication Module
(6GT2 002-0EE20)



| | |
|------------------------|-----------------------|
| 2 m = 6GT2 891-4FH20 | 5 m = 6GT2 891-4FH50 |
| 10 m = 6GT2 891-4FN10 | 20 m = 6GT2 891-4FN20 |
| 50 m = 6GT2 891-4FN50* | |

Reader connector 90° angled

| | |
|-----------------------|----------------------|
| 2 m = 6GT2 891-4JH20 | 5 m = 6GT2 891-4JH50 |
| 10 m = 6GT2 891-4JN10 | |

Reader

powered through connection cable



RF615A
6GT2 812-0EA00; ETSI
6GT2 812-0EA01; FCC, etc.

RF622A
6GT2812-2EA00, ETSI
6GT2812-2EA01, FCC, etc.

RF642A
6GT2 812-1GA08

RF650A
6GT2 812-0GB08

RF660A
6GT2 812-0AA00, ETSI
6GT2 812-0AA01, FCC, etc.

RF680A
6GT2 812-2GB08

RF680R
(1 to 4 ext. antennas)

6GT2811-6AA10-0AA0 (ETSI)
6GT2811-6AA10-1AA0 (FCC)
6GT2811-6AA10-2AA0 (CMIIT)
6GT2811-6AA10-4AA0 (ARIB)



RF685R
(internal antenna and optional 1 ext. antenna)

6GT2811-6CA10-0AA0 (ETSI)
6GT2811-6CA10-1AA0 (FCC)
6GT2811-6CA10-2AA0 (CMIIT)
6GT2811-6CA10-4AA0 (ARIB)

Cover caps
(6GT2898-4AA10)

Antenna Cable

| | |
|-----------|------------------|
| 1m | = 6GT2815-0BH10 |
| 3m | = 6GT2 815-0BH30 |
| 5m, flex | = 6GT2 815-2BH50 |
| 10m, 2dB | = 6GT2 815-1BN10 |
| 10m, 4dB | = 6GT2 815-0BN10 |
| 15m, flex | = 6GT2 815-2BN15 |
| 20m | = 6GT2 815-0BN20 |
| 40m | = 6GT2 815-0BN40 |

Power Splitter
6GT2 890-0BC00
(do not use with RF680A)

optional

DI/DO cable 5m
6GT2891-0CH50

3-way mounting kit
6GT2890-2AB10

Mounting plate
6GT2890-2AC00

Rail mounting set
6GT2890-0AB00

Labels

RF630L

6GT2 810-2AB02-0AX0
6GT2 810-2AE82-xxxx
6GT2810-2AB04-0AX1
6GT2810-2AB04
6GT2810-2AC82
6GT2810-2AC84
6GT2810-2AE83-0AX1
6GT2 810-2AE81-0AX3

RF635L

6GT2810-3AC80-1AX0

RF642L

6GT2 810-3AC00 (ETSI)
6GT2 810-3AC10 (FCC)

RF682L

6GT2810-2AG84-0AX0

RF690L

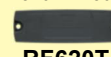
6GT2 810-2AG00 (ETSI)
6GT2 810-2AG10 (FCC)

Tags



RF610T

6GT2 810-2BB80
6GT2 810-2BB80-0AX1



RF620T

6GT2 810-2HC81



RF625T

6GT2 810-2EE00 (ETSI)
6GT2 810-2EE01 (FCC)



RF630T

6GT2 810-2EC00 (ETSI)
6GT2 810-2EC10 (FCC)



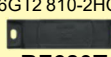
RF640T Gen2

6GT2 810-2DC00 (ETSI)
6GT2 810-2DC10 (FCC)



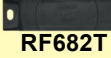
RF645T

6GT2 810-2HC05










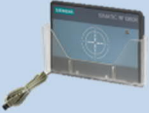

RF680T

6GT2 810-2HG80



RF682T

6GT2 810-3HG80


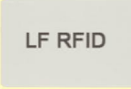
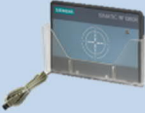

| RF1000 Family Matrix 13.56 MHz / ISO 15693 Passive Tags Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating | D100 6GT2 600-0AD10 112 byte EEPROM  -25°C to 80°C 85,6 x 54 x 0.9 IP68 | D200 6GT2 600-1AD00-0AX0 256 byte EEPROM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D400 6GT2 600-4AD00 2 kbyte FRAM  -20°C to 60°C 85.6 x 54 x 0.8 IP67 | D126 6GT2 600-0AE00 112 byte EEPROM  -40°C to 100°C Ø 50 x 3.6 IP68 | D426 6GT2 600-4AH00 2 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 | D526 6GT2 600-5AH00 8 kbyte FRAM  -40°C to 100°C Ø 50 x 3.6 IP68 |
|--|---|--|--|---|--|--|
| RF1040R (USB, RS232) 6GT2831-6CA50  | 30 (1.18) | 30 (1.18) | 30 (1.18) | 30 (1.18) | 30 (1.18) | 30 (1.18) |
| RF1060R (USB) 6GT2831-6AA50  | 30 (1.18) | 30** (1.18) | 30 (1.18) | 30 (1.18) | 30 (1.18) | 30 (1.18) |
| RF1070R (USB, RS232) 6GT2831-6BA50 6GT2831-6BA50-0AX0 (OEM*)  | 30 (1.18) | 30 (1.18) | | 30 (1.18) | | |

* ATEX not valid for OEM type)

** only for read-only access

Maximum Distance for Stationary Tag (mm)

Maximum Distance for Stationary Tag (inch)

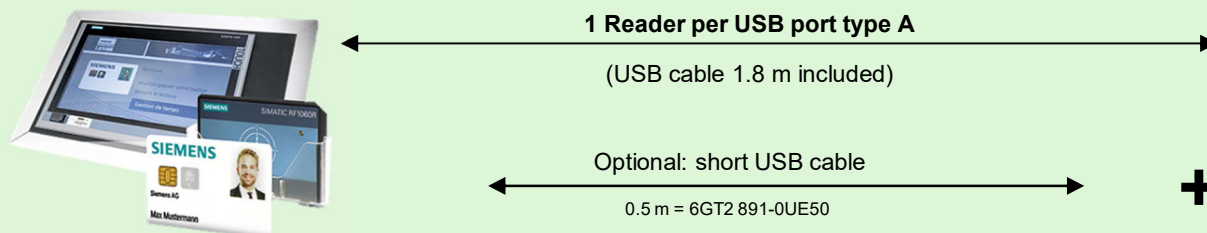
| <p>RF1000 Family Matrix 13.56 MHz others 125 kHz passive tags</p> <p>Operational temperature range Dimensions (L x W x D) mm Ingress Protection (IP) rating</p> | <p>E600 6GT2 300-0AA00 752 byte EEPROM</p>  <p>-25°C to 60°C 86 x 54 x 0.76 IP68</p> | <p>E611 6GT2 300-0BB00 752 byte EEPROM</p>  <p>-40°C to 85°C 86 x 54 x 2.5 IP67</p> | <p>ISO 14443</p>  <p>Company badges and transponders acc. ISO 14443 A/B</p> | <p>Legic</p>  <p>Company badges and Transponders acc. Legic Prime and Legic Advant</p> | <p>125 kHz (LF)</p>  <p>Company badges and Transponders acc. Hitag 1/2/S EM41xx, EKS and more</p> |
|--|--|---|---|--|---|
| <p>RF1040R (USB, RS232) 6GT2831-6CA50</p>  | <p>30 (1.18)</p> | <p>30 (1.18)</p> | <p>30 (1.18)</p> | <p style="background-color: #cccccc;"></p> | <p>30 (1.18)</p> |
| <p>RF1060R (USB) 6GT2831-6AA50</p>  | <p>30 (1.18)</p> | <p>30 (1.18)</p> | <p>30 (1.18)</p> | <p style="background-color: #cccccc;"></p> | <p style="background-color: #cccccc;"></p> |
| <p>RF1070R (USB, RS232) 6GT2831-6BA50 6GT2831-6BA50-0AX0 (OEM*)</p>  | <p>30 (1.18)</p> | <p>30 (1.18)</p> | <p>30 (1.18)</p> | <p>30 (1.18)</p> | <p style="background-color: #cccccc;"></p> |

* ATEX not valid for OEM type)

Maximum Distance for Stationary Tag (mm)

Maximum Distance for Stationary Tag (inch)

USB



DLL and simple Demo for PC:

<https://support.industry.siemens.com/cs/ww/en/view/109741590>

Local user administration for Comfort Panels and IPC:

<https://support.industry.siemens.com/cs/ww/en/view/99808171>

<https://support.industry.siemens.com/cs/de/en/view/109754400> (SIMATIC HMI Option+)

Central user management PM Logon

<https://www.siemens.com/pm-logon>

<https://support.industry.siemens.com/cs/ww/en/view/109779685>

SIMATIC Logon / Logon Remote Access

<https://support.industry.siemens.com/cs/ww/en/view/109749167>

Reader

Powered through USB cable

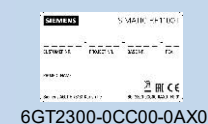


Optional:

Card holder



Config-Card (for customer-specific reader configuration)



Extension unit IP65 for operator controls

- 12" 6AV7674-1LA31-0AA0
- 15" 6AV7674-1LA41-0AA0
- 19" 6AV7674-1LA51-0AA0
- 22" 6AV7674-1LA61-0AA0



Tags



- D100 (6GT2 600-0AD10)
- D200 (6GT2 600-1AD00-0AX0)
- D400 (6GT2 600-4AD00)*



- D126 (6GT2 600-0AE00)
- D426 (6GT2 600-4AH00)*
- D526 (6GT2 600-5AH00)*

ISO 14443

Company badges and transponders acc. ISO 14443 A/B Incl. MDS E600/E611

ISO 15693

Transponders acc. ISO 15693

Legic Prime **)

Company badges and Transponders acc. Legic Prime and Legic Advant

LF RFID ****)

Company badges and Transponders acc. Hitag 1/2/S, EM41xx, EKS and more

Tag restrictions:

- * not for RF1070R
- ** only with RF1070R
- *** only with RF1040R

**** ATEX not valid for OEM type)

PROFINET & Ethernet/IP

Communication Modules



A maximum of
1 reader at RF185C,
2 readers at RF186C/CI, RF188C/CI
of RF1000 may be connected (RS232)

Connection cable:
2m = 6GT2891-4UH20
(do not use an additional
extension cable)

Additional IOs



RF18xCI to sensor
Sensor cable from
0.5 to 15 m available
(e.g. 2 m = 6XV1801-2CH20)

Types of IO-Link IO module

IO-extension module
6ES7 14..... (up to 8xDI + 8xDO)

See page 76 for detailed information

Or one
Standard sensor

Or one
Actor

PROFIBUS



RF166C (DP-V1)
Communication Module
(6GT2 002-0EE20)

A maximum of 2 readers
may be connected (RS232)

Connection cable:
2m = 6GT2891-4UH20
(do not use an additional
extension cable)

Reader

Powered through connection cable



RF1040R
(6GT2 831-6CA50)



RF1070R
(6GT2 831-6BA50,
OEM****)

Optional:

Card holder



6GT2 890-0CA00

Config-Card (for customer-specific reader configuration)



6GT2300-0CC00-0AX0

Extension unit IP65 for operator controls

- 12" 6AV7674-1LA31-0AA0
- 15" 6AV7674-1LA41-0AA0
- 19" 6AV7674-1LA51-0AA0
- 22" 6AV7674-1LA61-0AA0



Tags



D100 (6GT2 600-0AD10)
D200 (6GT2 600-1AD00-0AX0)
D400 (6GT2 600-4AD00)*



D126 (6GT2 600-0AE00)
D426 (6GT2 600-4AH00)*
D526 (6GT2 600-5AH00)*

ISO 14443

Company badges
and transponders
acc. ISO 14443 A/B
Incl. MDS E600/E611

ISO 15693

Transponders
acc. ISO 15693

Legic Prime **)

Company badges
and Transponders
acc. Legic Prime
and Legic Advant

LF RFID ****)

Company badges
and Transponders
acc. Hitag 1/2/S,
EM41xx, EKS and more

Tag restrictions:

- * not for RF1070R
- ** only with RF1070R
- *** only with RF1040R

**** ATEX not valid for OEM type)

RF1000 System Interfaces

SIMATIC PLC S7-1200



RF120C
6GT2 002-0LA00

Up to 3 x RF120C modules
per S7-1200 rack



A maximum of 1 readers may be connected
← **RF120C to RF10x0R** →
2 m = 6GT2891-6UH20

ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET 200pro PROFIBUS DP-V1
Interface Modul

ET 200pro PROFINET
Interface Modul

ET 200pro PROFINET
CPU module

Up to 9 x RF170C
modules per
ET 200pro rack



RF170C
Communication module
(6GT2002-0HD01)
Connection block
(6GT2002-1HD01)



A maximum of 2 readers
may be connected (RS232)

Connection cable:
2m = 6GT2891-4UH20
(do not use an additional
extension cable)

Use standard function
block Ident Profile

Application example available:
<https://support.industry.siemens.com/cs/ww/de/view/109770535>

ET 200SP via serial modul

(example; also useful for the connection to other serial modules)



Serial interface RS232

6ES7137-6AA00-0BA0



LOGO POWER 220V/5V

6EP3310-6SB00-0AY0

The max. current of 3 A may supply up to 10 Reader

A maximum of 1 reader per serial module
may be connected (RS232)

Connection cable:
3m = 6GT2891-2UH30

(do not use an additional
extension cable)

Use : P2P_Send and P2P_Receive
for programming

Reader

Powered through connection cable



RF1040R
(6GT2 831-6CA50)



RF1070R
(6GT2 831-6BA50-0AX0,
OEM****)

Optional:

Card holder



6GT2 890-0CA00

Config-Card (for customer-specific reader configuration)



6GT2300-0CC00-0AX0

Extension unit IP65 for operator controls

- 12" 6AV7674-1LA31-0AA0
- 15" 6AV7674-1LA41-0AA0
- 19" 6AV7674-1LA51-0AA0
- 22" 6AV7674-1LA61-0AA0



**** ATEX not valid for OEM type)

Tags



- D100 (6GT2 600-0AD10)
- D200 (6GT2 600-1AD00 -0AX0)
- D400 (6GT2 600-4AD00)*



- D126 (6GT2 600-0AE00)
- D426 (6GT2 600-4AH00)*
- D526 (6GT2 600-5AH00)*

ISO 14443

Company badges
and transponders
acc. ISO 14443 A/B
Incl. MDS E600/E611

ISO 15693

Transponders
acc. ISO 15693

Legic Prime **)

Company badges
and Transponders
acc. Legic Prime
and Legic Advant



LF RFID ****)



Company badges
and Transponders
acc. Hitag 1/2/S,
EM41xx, EKS and more

Tag restrictions:




- * not for RF1070R
- ** only with RF1070R
- *** only with RF1040R

RF350M

| Packaged Systems | | Additional Components | Spare Parts |
|--|---|---|---------------------------------------|
| Packaged Systems include Handheld unit, RFID read/ write head, and battery | | Docking/ Charging Unit  6GT2803-0BM00 | Spare Battery 6GT2803-0CA00 |
|  RF350M internal antenna | 6GT2 803-1BA00 suitable for RF200, RF300, MDS E* and MDS D tags, except for D117, D127, D421, D422 and E623 | | |

| Packaged Systems | | Additional Components | Spare Parts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|---|---------------------------------------|------------------|--|--|-----------------------|------|--------------|-------|--------------------|--|--------|--------------------|------------------------|-------|----------------|------------------|-----------|----------------|--|-----------|----------------|--|--------|----------------|--|----------------|------|--------------|--------------|----------------------------------|-----------------------------|--|
| Packaged Systems include Handheld unit, RFID read/ write head, and battery (Antenna and cable for usage is not included) | | Docking/ Charging Unit  6GT2803-0BM00 | Spare Battery 6GT2803-0CA00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  RF350M external antenna | 6GT2 803-1BA10 Needs external antenna with antenna cable for usage suitable for RF200, RF300, MDS E* and MDS D tags according table in right column *) from hardware version AS02: MDS E and MDS D5xx transponders are supported | <table border="1"> <thead> <tr> <th colspan="3">External Antenna</th> </tr> <tr> <th>Antenna without cable</th> <th>MLFB</th> <th>Suitable for</th> </tr> </thead> <tbody> <tr> <td>Ant 3</td> <td>6GT2398-1CD30-0AX0</td> <td>D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T</td> </tr> <tr> <td>Ant 3S</td> <td>6GT2398-1CD50-0AX0</td> <td>D117, D127, D421, D521</td> </tr> <tr> <td>Ant 8</td> <td>6GT2 398-1CF00</td> <td>D117, D127, D421</td> </tr> <tr> <td>Ant 12 **</td> <td>6GT2 398-1DC00</td> <td>D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T</td> </tr> <tr> <td>Ant 18 **</td> <td>6GT2 398-1DA00</td> <td>D117, D124, D127, D160, D324, D421, D422, D424, D425, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T</td> </tr> <tr> <td>Ant 30</td> <td>6GT2 398-1DD00</td> <td>D124, D126, D160, D324, D422, D423, D424, D425, D426, D428, D460, D522, D524, D525, D526, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T</td> </tr> <tr> <th>Antenna cables</th> <th>MLFB</th> <th>Suitable for</th> </tr> <tr> <td>0.1 m 3 m</td> <td>6GT2 898-0EA00 6GT2 391-0AH30</td> <td>For all antenna types above</td> </tr> </tbody> </table> | | External Antenna | | | Antenna without cable | MLFB | Suitable for | Ant 3 | 6GT2398-1CD30-0AX0 | D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T | Ant 3S | 6GT2398-1CD50-0AX0 | D117, D127, D421, D521 | Ant 8 | 6GT2 398-1CF00 | D117, D127, D421 | Ant 12 ** | 6GT2 398-1DC00 | D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T | Ant 18 ** | 6GT2 398-1DA00 | D117, D124, D127, D160, D324, D421, D422, D424, D425, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T | Ant 30 | 6GT2 398-1DD00 | D124, D126, D160, D324, D422, D423, D424, D425, D426, D428, D460, D522, D524, D525, D526, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T | Antenna cables | MLFB | Suitable for | 0.1 m 3 m | 6GT2 898-0EA00 6GT2 391-0AH30 | For all antenna types above | |
| | | External Antenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna without cable | MLFB | Suitable for | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ant 3 | 6GT2398-1CD30-0AX0 | D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ant 3S | 6GT2398-1CD50-0AX0 | D117, D127, D421, D521 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ant 8 | 6GT2 398-1CF00 | D117, D127, D421 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ant 12 ** | 6GT2 398-1DC00 | D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ant 18 ** | 6GT2 398-1DA00 | D117, D124, D127, D160, D324, D421, D422, D424, D425, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Ant 30 | 6GT2 398-1DD00 | D124, D126, D160, D324, D422, D423, D424, D425, D426, D428, D460, D522, D524, D525, D526, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna cables | MLFB | Suitable for | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.1 m 3 m | 6GT2 898-0EA00 6GT2 391-0AH30 | For all antenna types above | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | **) antennas also available with 0.6 m integrated antenna cable; ANT12 (6GT2398-1CC10), ANT18 (6GT2398-1CA10) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

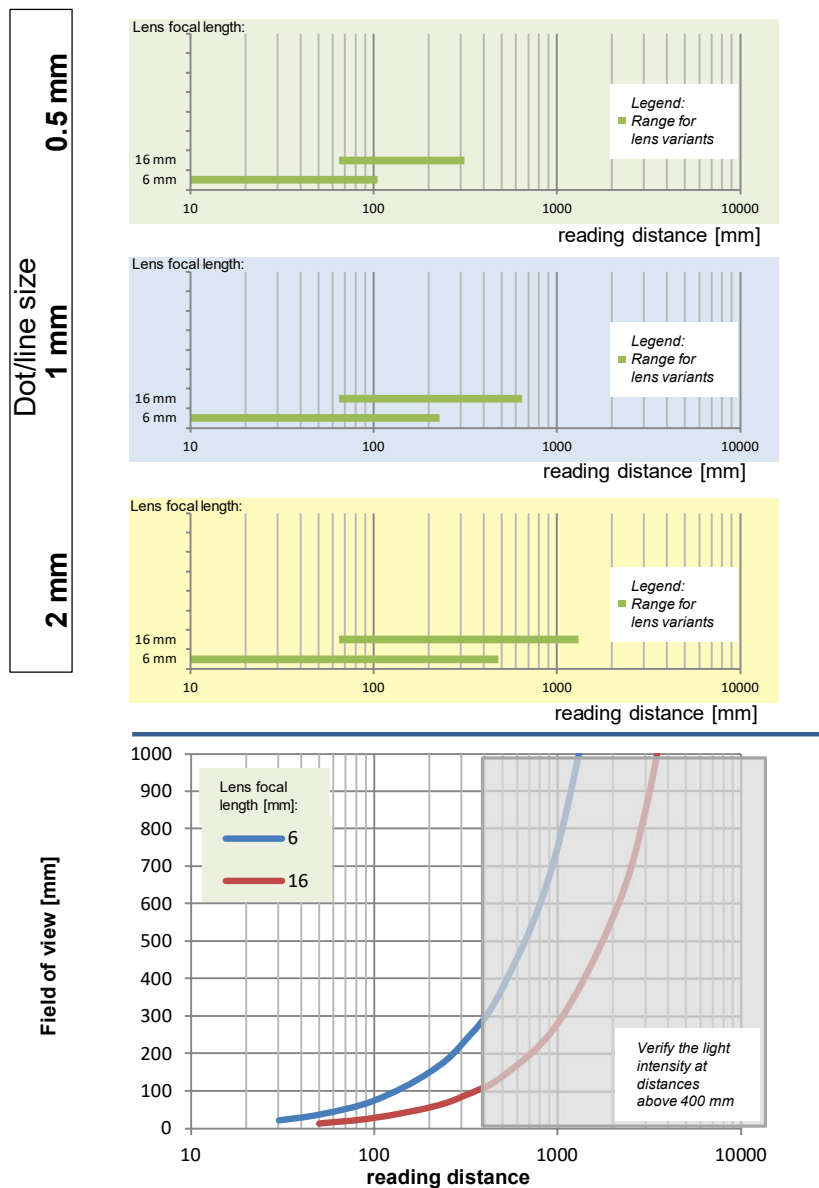
RF600

| Packaged Systems | | Additional Components | Spare Parts |
|---|------------------------------|--|-------------------------------------|
| Packaged Systems include Handheld unit, RFID read/ write head, integrated WLAN and battery | | Docking/ Charging Unit  6GT2 898-0BB00 | |
|  RF650M | 6GT2 813-0CA00 (ETSI) | | Spare Battery 6GT2 898-0CB00 |
|  RF650M | 6GT2 813-0CA10 (FCC) | | |

- Steps for selecting lens:**
1. Define the smallest dot size on DMC code or line width at barcode. Use the horizontal graph next to your size selection in the upper section
 2. Define the reading distance and draw a vertical line with a ruler (note: SR-B and SR-P have use the same diagrams)
 3. Select a lens and a camera type combination in the upper diagrams which fit best (green bars crossing)
 4. Verify at the lower diagrams that the field of view is within the range of your application

Note: For a more detailed selection or if your application is out the presented range ask the presales team at presales.ci.industry@siemens.com

Basic Models: **SR-B** (6GF3420-0AA20) or **SR-P** (6GF3420-0AA40)



MV420, MV440 and MV500: light and filter selection

| light and filter selection | Information for selection | MV420 | MV440 | MV500 |
|----------------------------|---|--------------------|---|---|
| Red light | The most popular light with a high light intensity | 6GF3420-0AC00-1LT0 | 6GF3440-8DA11; 6GF3400-0LT01-8DA1 (external) | 6GF3540-8DA11 (Basic) 6GF3540-8DA13 (Multi) 6GF3400-0LT01-8DA1 (external) |
| White light | Use white light if the color of the objects varies | 6GF3420-0AC00-2LT0 | 6GF3440-8DA21 | 6GF3540-8DA23 (Multi) |
| Green light | For usage with PCB and other green materials marked with dark codes | | 6GF3440-8DA31 | |
| Infrared light | No bothersome flashes | 6GF3420-0AC00-3LT0 | 6GF3440-8DA41; 6GF3400-0LT01-7BA1 (external) | 6GF3540-8DA41 (Basic) 6GF3400-0LT01-7BA1 (external) |
| Red filter | Using red light and red filter is improving the image quality | | | 6GF3540-8AC51 6GF3540-8AC52 |
| Infrared filter | The usage together with infrared light filters completely the influence of daylight | | 6GF9001-2AD | 6GF3540-8AC41 6GF3540-8AC42 |
| Daylight filter (UVIRcut) | For protection of the camera against laser light beyond the visible spectrum | | 6GF3440-8EA1 | 6GF3540-8AC31 6GF3540-8AC32 |
| Polarization filter | Use this filter to reduce reflections at metallic or shiny parts (i.e. plastic foils) | | 6GF9001-2AF 6GF3440-8CX3 | Included in Multi-lights |

- Steps for selecting lens:**
1. Define the smallest dot size on DMC code or line width at barcode. Use the horizontal graphs next to your size selection in the upper section
 2. Define the reading distance and draw a vertical line with a ruler at every camera type (SR, HR, UR)
 3. Select a lens and a camera type combination in the upper diagrams which fit best (green bar crossing or red bar crossing (intermediate rings (IR) required))
 4. Verify at the lower diagrams that the field of view is within the range of your application

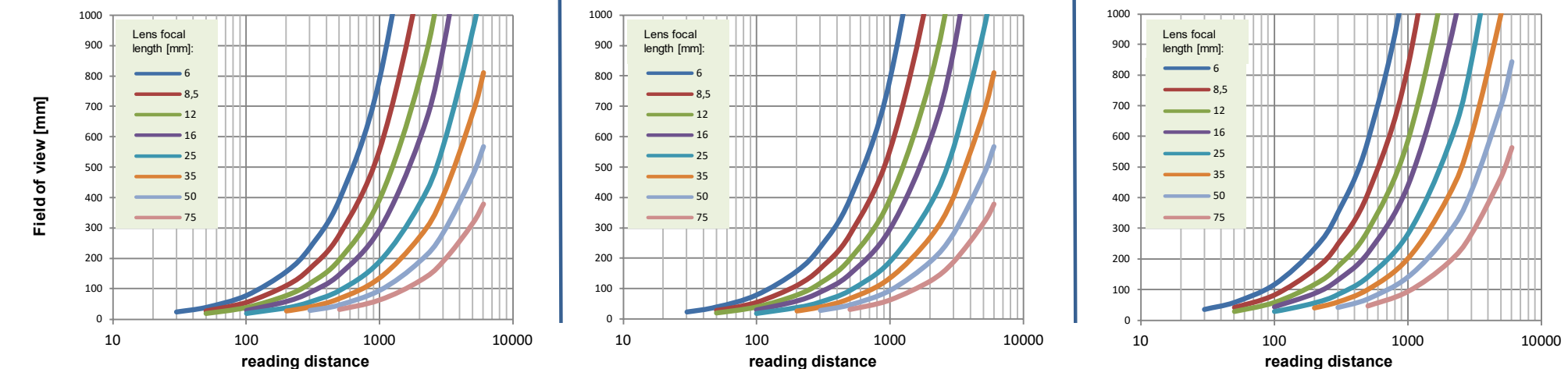
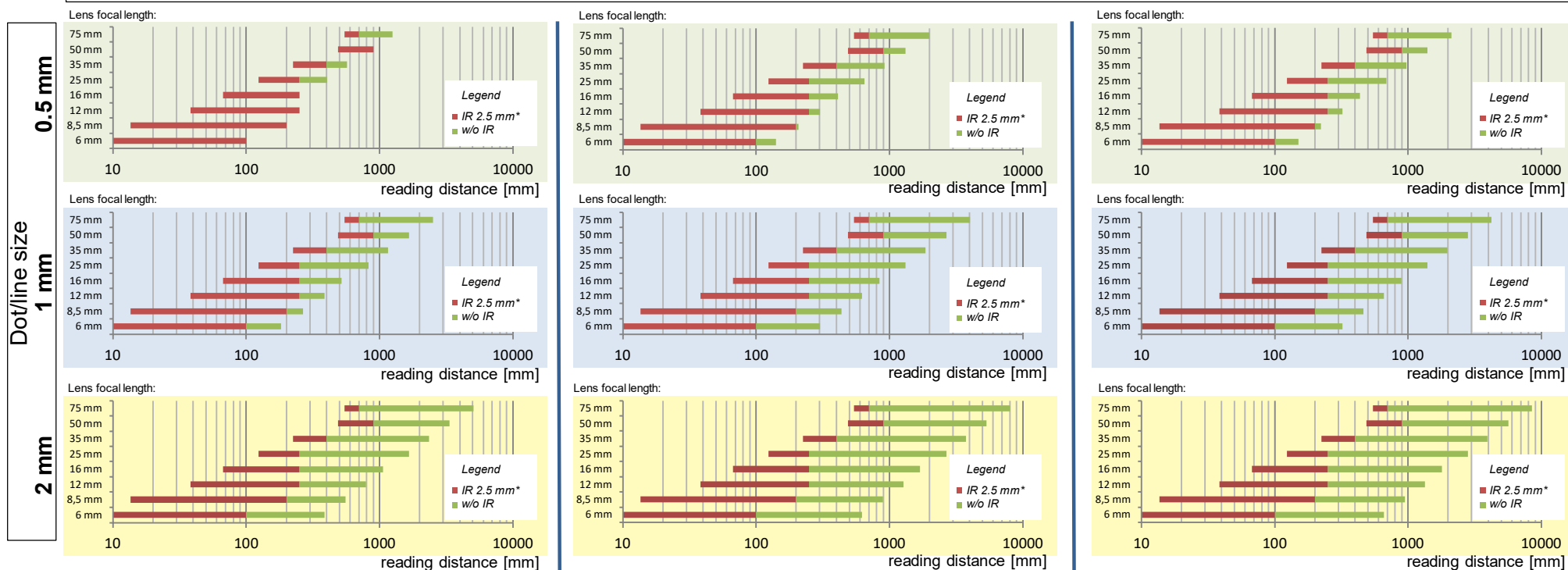
Note: For a more detailed selection or if your application is out the presented range ask the presales team at presales.ci.industry@siemens.com

Basic Models:

SR (6GF3440-1CD10)

HR (6GF3440-1GE10)

UR (6GF3440-1LE10)



MV540 & MV550: camera and lens selection

- Steps for selecting lens:**
1. Define the smallest dot size on DMC code or line width at barcode. Use the horizontal graphs next to your size selection in the upper section
 2. Define the reading distance and draw a vertical line with a ruler at every camera type (S, H)
 3. Select a lens and a camera type combination in the upper diagrams which fit best (green bar crossing or red bar crossing (intermediate rings (IR) required))
 4. Verify at the lower diagrams that the field of view is within the range of your application

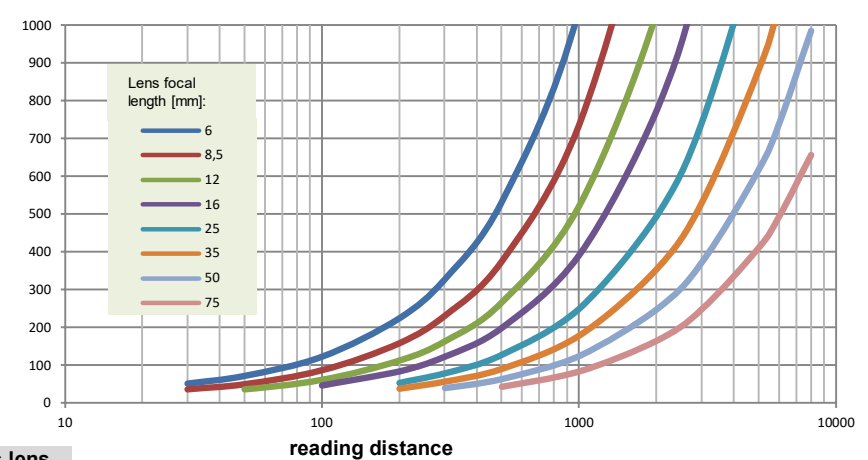
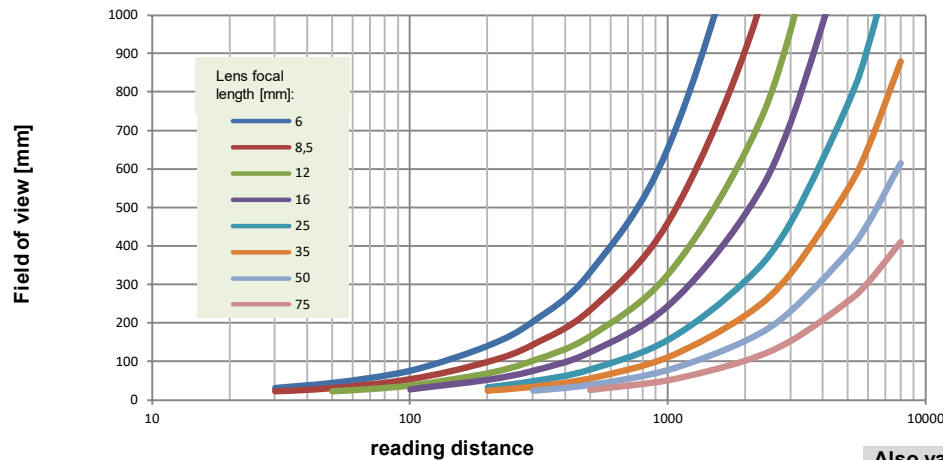
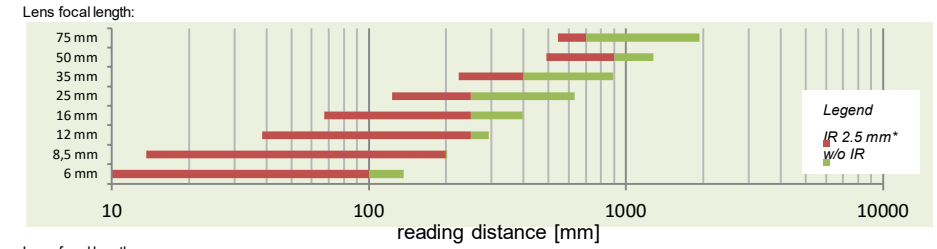
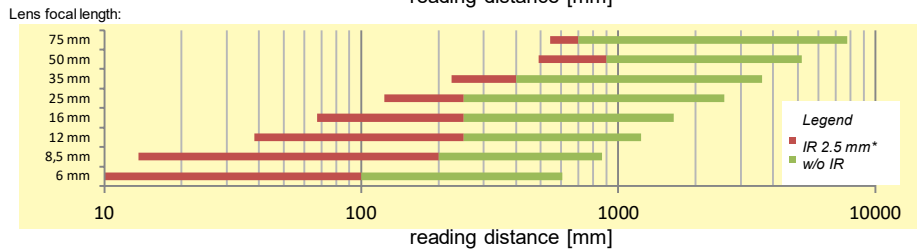
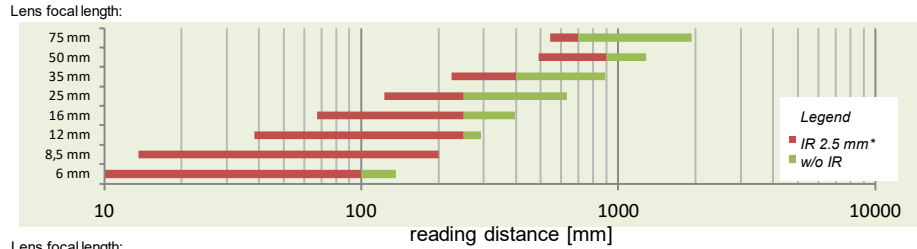
Note: For a more detailed selection or if your application is out the presented range ask the presales team at presales.ci.industry@siemens.com

Basic Models:

S (6GF3540-0CD10)

H (6GF3540-0GE10)

Dot/line size
0.5 mm
1 mm
2 mm



Also valid for E-Focus lens

- Steps for selecting lens:**
1. Define the smallest dot size on DMC code or line width at barcode. Use the horizontal graphs next to your size selection in the upper section
 2. Define the reading distance and draw a vertical line with a ruler at every camera type (U, X)
 3. Select a lens and a camera type combination in the upper diagrams which fit best (green bar crossing or red bar crossing (intermediate rings (IR) required))
 4. Verify at the lower diagrams that the field of view is within the range of your application

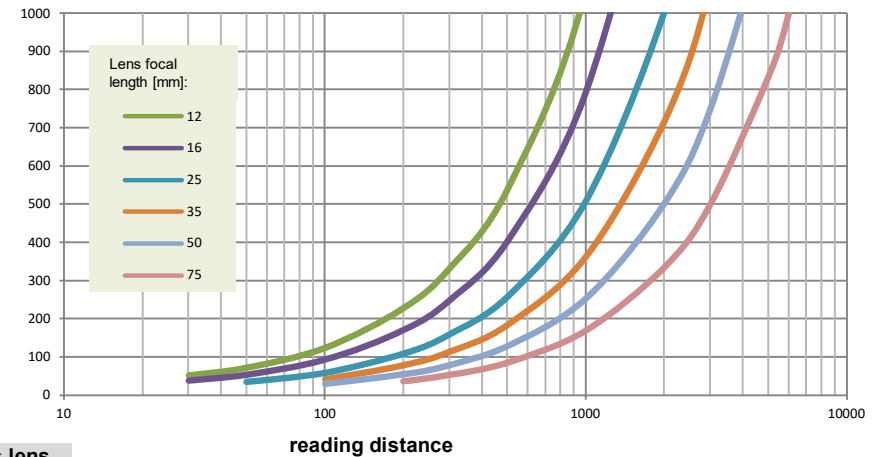
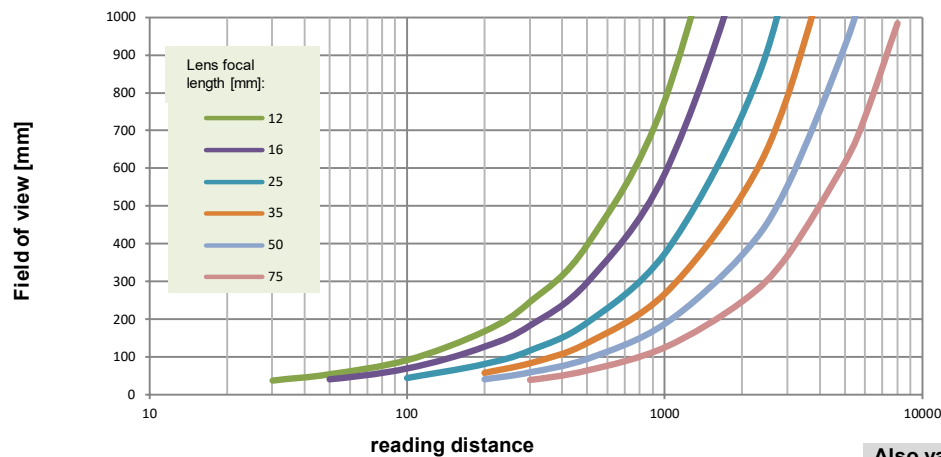
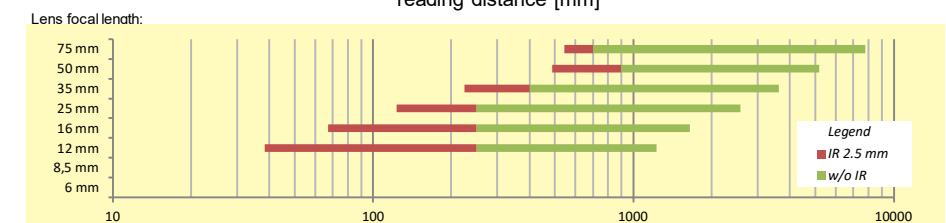
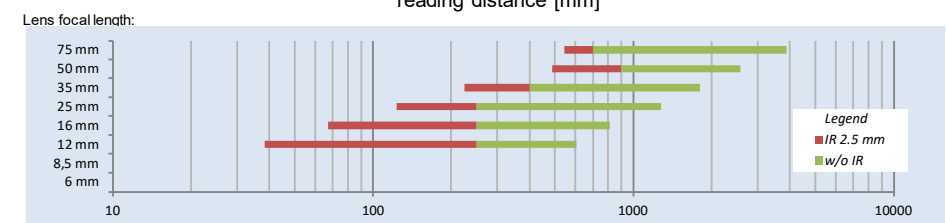
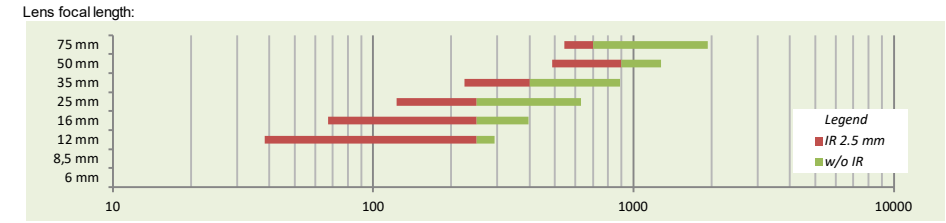
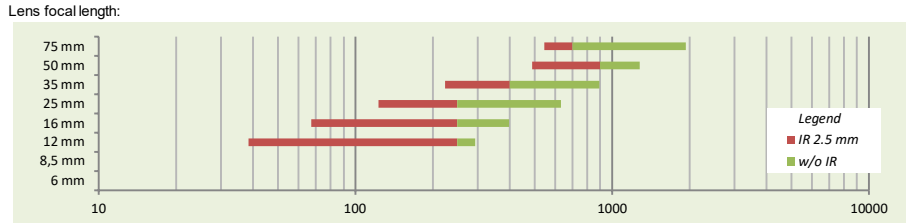
Note: For a more detailed selection or if your application is out the presented range ask the presales team at presales.ci.industry@siemens.com

Basic Models:

U (6GF3560-0LE10)

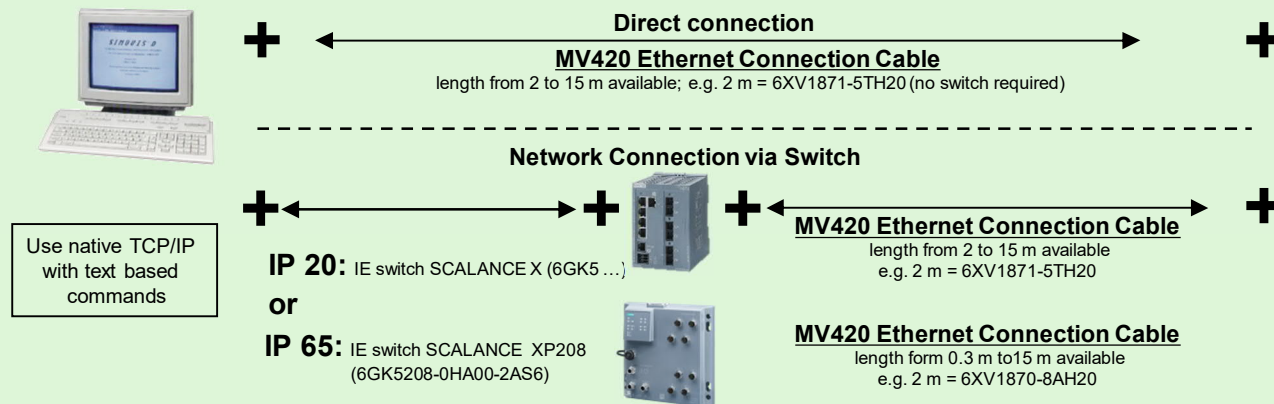
X (6GF3560-0HE10)

Dot/line size

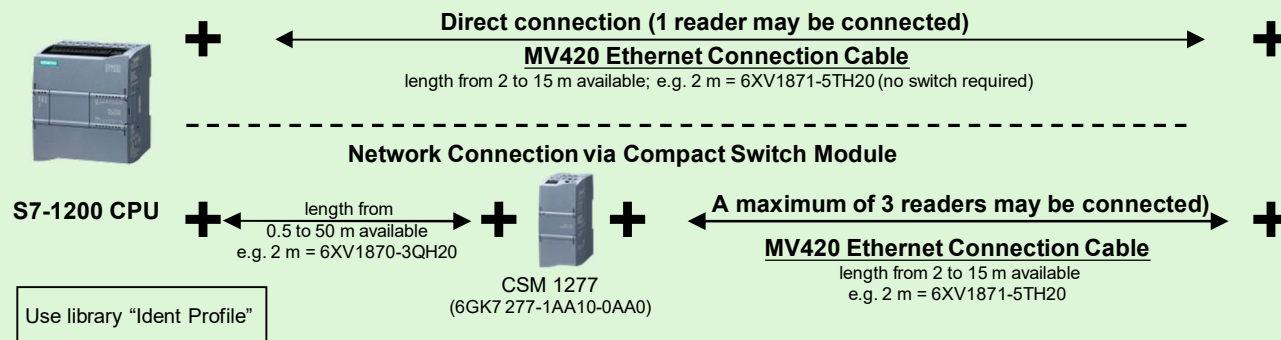


Also valid for E-Focus lens

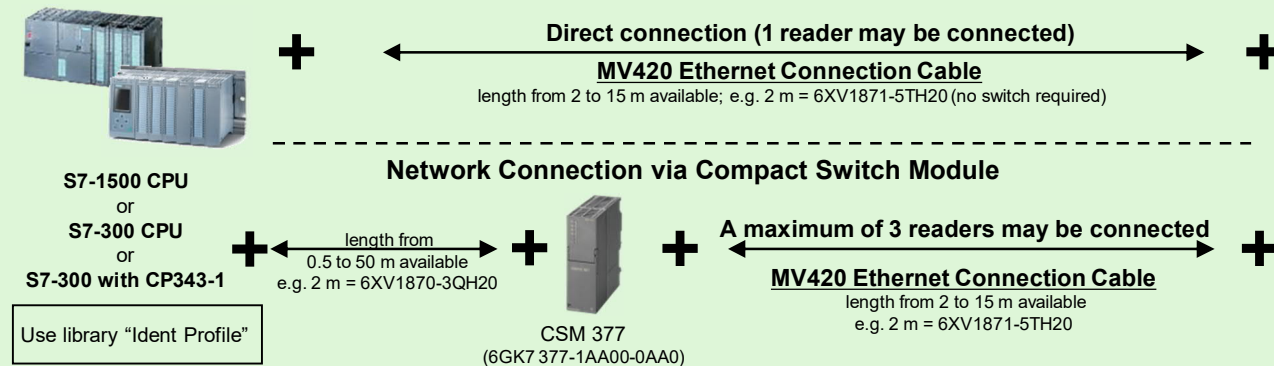
Ethernet TCP/IP



S7-1200 via Industrial Ethernet or PROFINET



S7-300/1500 via Industrial Ethernet or PROFINET



Reader

With external power supply



MV420 complete

6 mm lens, red light, 640 x 480 pixel
 SR-B: up to 40 reads per second (6GF3420-0AA20)
 SR-P: up to 70 reads per second (6GF3420-0AA40)

Optional



Lens

6 mm (6GF3420-0AC00-0LK0)
 16 mm (6GF3420-0AC00-1LK0)



Lights

red (6GF3420-0AC00-1LT0)
 infrared (6GF3420-0AC00-3LT0)

Cable for power supply

Open wires

10 m = 6GF3440-8BA2
 30 m = 6GF3440-8BA4

or Push Pull

1.5 m = 6GF3400-0BH15
 2 m = 6GF3400-1BH20

Options

DIDO

Wires included in power supply cable Open wires

Support

Mounting bracket
 6GF3420-0AC00-1AA0

SIMATIC PLC

S7-1200



RF120C
6GT2 002-0LA00

A maximum of 1 reader may be connected
RF120C to MV420

2 m = 6GT2 091-4LH20
5 m = 6GT2 091-4LH50
10 m = 6GT2 091-4LN10

And extension cables:
2 m = 6GT2 891-4FH20
10 m = 6GT2 891-4FN10
50 m = 6GT2 891-4FN50

adapting cable:
2 m = 6GF3420-0AC00-2CB0

5 m = 6GT2 891-4FH50
20 m = 6GT2 891-4FN20

SIMATIC PLC

S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



ASM 475 + Front connector
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

Accessories:
Connecting element (6ES7 390-5AA00-0AA0)
Terminal element (6ES7 390-5BA00-0AA0)

A maximum of 2 readers may be connected
ASM 475 to MV420

2 m = 6GT2 891-4EH20
5 m = 6GT2 891-4EH50

And extension cables:
2 m = 6GT2 891-4FH20
10 m = 6GT2 891-4FN10
50 m = 6GT2 891-4FN50

adapting cable:
2 m = 6GF3420-0AC00-2CB0

5 m = 6GT2 891-4FH50
20 m = 6GT2 891-4FN20

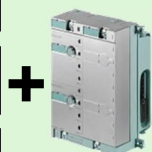
ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET 200pro PROFIBUS DP-V1
Interface module

ET 200pro PROFINET
Interface module

ET 200pro PROFINET
CPU module

Up to 9 x 170C
modules per
ET 200pro rack



RF170C
Communication module
(6GT2002-0HD01)
Connection block
(6GT2002-1HD01)

A maximum of 2 readers may be connected
RF170C to MV420

Extension cables:
2 m = 6GT2 891-4FH20
5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10
20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50

adapting cable:
2 m = 6GF3420-0AC00-2CB0

PROFIBUS



RF166C (DP-V1)
Communication Module
(6GT2 002-0EE20)

A maximum of 2 readers may be connected
RF166C to MV420

Extension cables:
2 m = 6GT2 891-4FH20
5 m = 6GT2 891-4FH50
10 m = 6GT2 891-4FN10
20 m = 6GT2 891-4FN20
50 m = 6GT2 891-4FN50

adapting cable:
2 m = 6GF3420-0AC00-2CB0

Reader

powered through connection cable



MV420 complete
6 mm lens, red light, 640 x 480 pixel
SR-B: up to 40 reads per second
(6GF3420-0AA20)
SR-P: up to 70 reads per second
(6GF3420-0AA40)

Optional



Lens
6 mm
(6GF3420-0AC00-0LK0)
16 mm
(6GF3420-0AC00-1LK0)



Lights
red
(6GF3420-0AC00-1LT0)
infrared
(6GF3420-0AC00-3LT0)

Options

D/DIO

Use cable „Power
supply DIO
RS232“ +
distribution frame
instead of
adapting cable

10 m = 6GF3440-8BA2
30 m = 6GF3440-8BA4

Web Interface

Use additional IE
cable

Various lengths available
2 m = 6XV1871-5TH20

Support

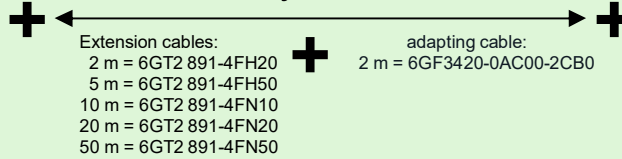
Mounting bracket
6GF3420-0AC00-1AA0

PROFINET & OPC UA & Ethernet/IP & TCP/IP

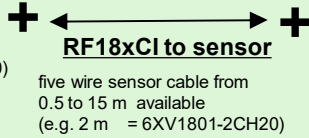
Communication Modules



A maximum of
1 reader at RF185C,
2 readers at RF186C/CI,
4 readers at RF188C/CI
 of MV420 may be connected



Additional IOs



Types of IO-Link IO module

IO-extension module
 6ES7 14..... (up to 8xDI + 8xDO)

See page 76 for detailed information

Or one
Standard sensor

Or one
Actor

Reader

powered through connection cable



MV420 complete
 6 mm lens, red light, 640 x 480 pixel
 SR-B: up to 40 reads per second
 (6GF3420-0AA20)
 SR-P: up to 70 reads per second
 (6GF3420-0AA40)

Options

DIDO

Use cable „Power supply DIO RS232“ + distribution frame instead of adapting cable
 10 m = 6GF3440-8BA2
 30 m = 6GF3440-8BA4

Web Interface

Use additional IE cable
 Various lengths available
 2 m = 6XV1871-5TH20

Support

Mounting bracket
 6GF3420-0AC00-1AA0

Optional



Lens
 6 mm
 (6GF3420-0AC00-0LK0)
 16 mm
 (6GF3420-0AC00-1LK0)

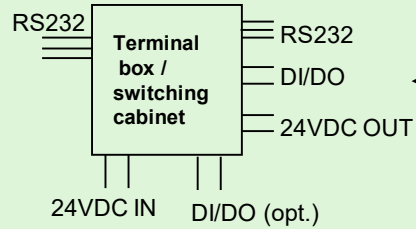


Lights
 red
 (6GF3420-0AC00-1LT0)
 infrared
 (6GF3420-0AC00-3LT0)

Serial RS232



Simple text based protocol



← **1 Reader per COM port may be connected** → +
RS 232 cable for MV420 (open wires)
 10 m = 6GF3440-8BA2
 30 m = 6GF3440-8BA4

Reader

With external power supply



MV420 complete

6 mm lens, red light, 640 x 480 pixel
 SR-B: up to 40 reads per second
 (6GF3420-0AA20)
 SR-P: up to 70 reads per second
 (6GF3420-0AA40)

Optional



Lens

6 mm
 (6GF3420-0AC00-0LK0)
 16 mm
 (6GF3420-0AC00-1LK0)



Lights

red
 (6GF3420-0AC00-1LT0)
 infrared
 (6GF3420-0AC00-3LT0)

Options

DI/DO

Wires included in RS232 / power supply cable
 Open wires

Web Interface

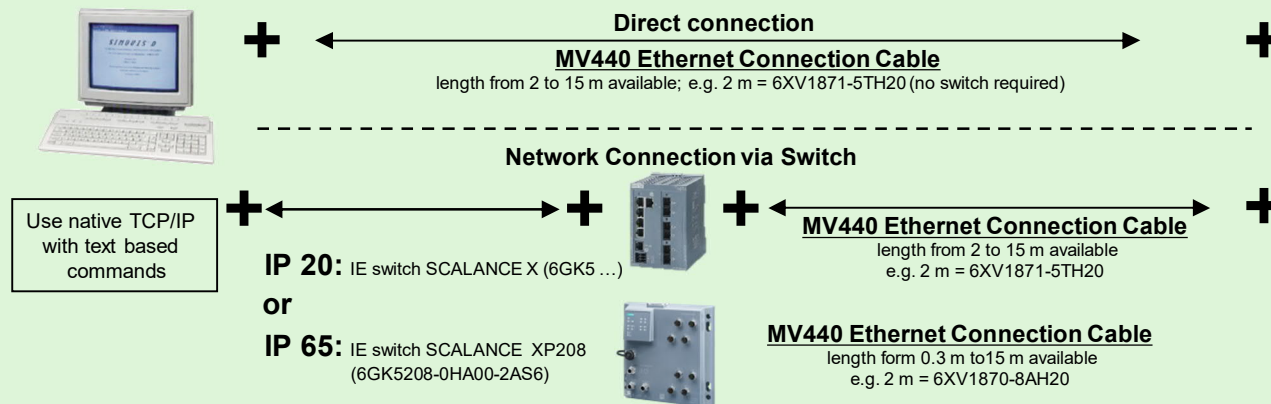
Use additional IE cable

Various lengths available
 2 m = 6XV1871-5TH20

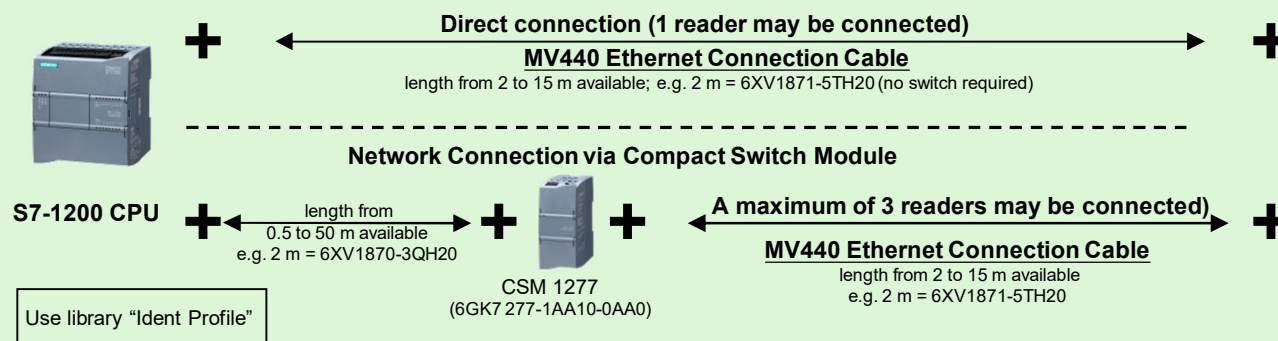
Support

Mounting bracket
 6GF3420-0AC00-1AA0

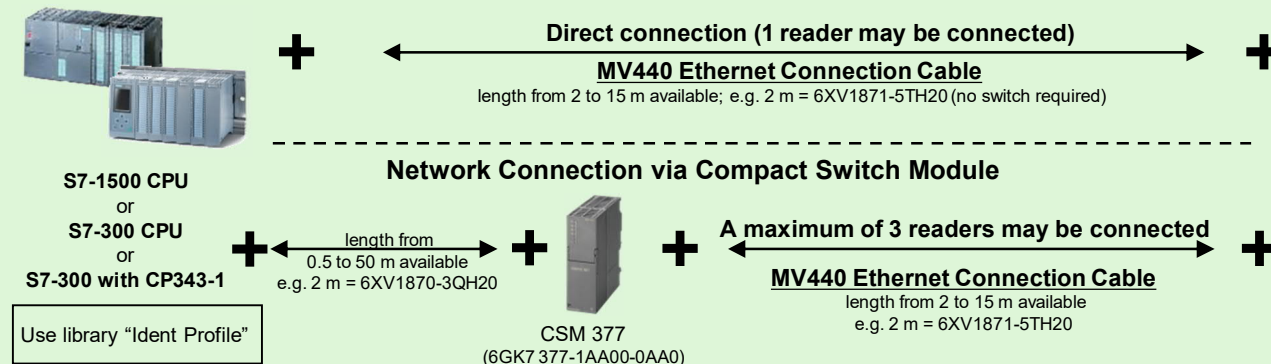
Ethernet TCP/IP



S7-1200 via Industrial Ethernet or PROFINET



S7-300/1500 via Industrial Ethernet or PROFINET



Reader

With external power supply



MV440

SR; 640 x 480 pixel:
 (6GF3440-1CD10)
 HR; 1024 x 768 pixel:
 (6GF3440-1GE10)
 UR; 1600 x 1200 pixel:
 (6GF3440-1LE10)



Lens

6 mm
 (6GF9001-1BB01)
 8.5 mm **)
 (6GF9001-1BE01)
 12 mm
 (6GF9001-1BL01)
 16 mm
 (6GF9001-1BF01)
 25 mm
 (6GF9001-1BG01)
 35 mm
 (6GF9001-1BH01)
 50 mm
 (6GF9001-1BJ01)
 75 mm ***) ***)
 (6GF9001-1BK01)



Lights build-in

red
 (6GF3440-8DA11)
 white
 (6GF3440-8DA21)
 green
 (6GF3440-8DA31)
 infrared
 (6GF3440-8DA41)



Lights external *)

red
 (6GF3400-0LT01-8DA1)
 infrared
 (6GF3400-0LT01-7BA1)

Cable for power supply

Open wires

10 m = 6GF3440-8BA2
 30 m = 6GF3440-8BA4

or Push Pull

1.5 m = 6GF3400-0BH15
 2 m = 6GF3400-1BH20

Or Wide-Range power supply

EU connector

6GT2 898-0AA00

UK connector

6GT2 898-0AA10

US connector

6GT2 898-0AA20

5 m cable for 24 V

6GT2 891-0PH50

Cable adapter M16/M12

(6GF3440-8BD1)
 Or
 Cable M12/open wire
 (6GF3440-8BC4)

Mounting plate

(6GF3440-8CD01)

*) Additional power supply needed
 **) not in combination with build-in lights;
 ***) for protection order additional the tube extension 6GF3440-8AC13

Options

D/I/DO *)

Wires included in power supply cable „Open wires“

Software

Text-Genius
 6GF3400-OSL01
 Text-Genius Plus
 6GF3400-1SL01
 Veri-Genius
 6GF3400-OSL02
 Pat-Genius
 6GF3400-OSL03

Support

Mounting plate
 6GF3440-8CA
 Tri-plate
 6GF9002-7AD

Opt. for Lens rings

0.5, 1, 5, 10, 20, 40 mm
 6GF9001-1BU
 0.5, 1 mm
 6GF9001-1BU01
 length doubler
 6GF9001-1BV

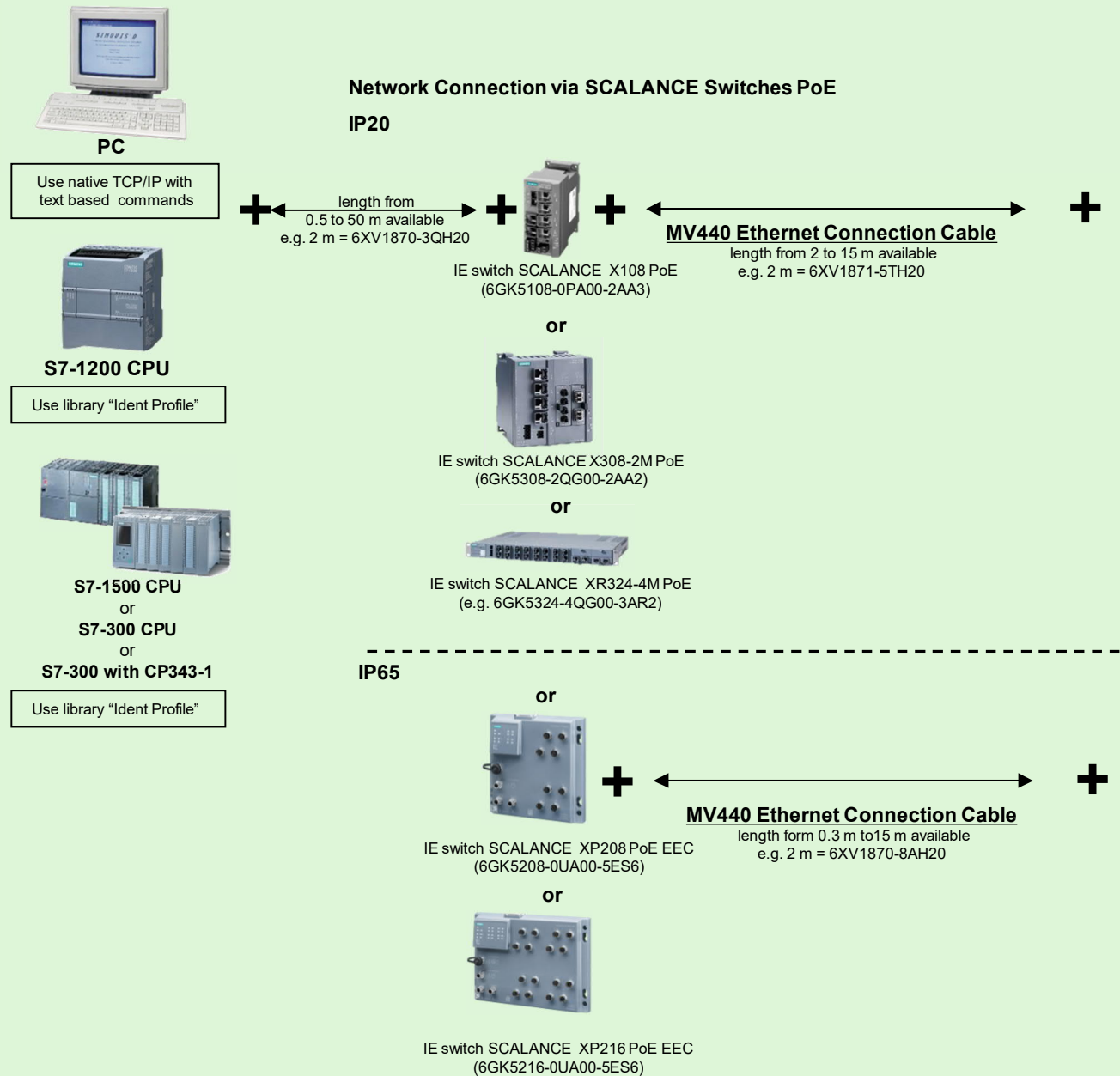
Filter

infrared
 6GF9001-2AD
 polarization
 6GF9001-2AF
 6GF3440-8CX3
 daylight
 6GF3440-8EA1

Protective lens cover

metal glas
 6GF3440-8AC11
 metal plastic
 6GF3440-8AC21
 plastic (included in basic model)
 6GF3440-8AC12

Ethernet TCP/IP or PROFINET (PoE)



Reader

With power supply over Ethernet (PoE)

Lens

- 6 mm (6GF9001-1BB01)
- 8.5 mm ** (6GF9001-1BE01)
- 12 mm (6GF9001-1BL01)
- 16 mm (6GF9001-1BF01)
- 25 mm (6GF9001-1BG01)
- 35 mm (6GF9001-1BH01)
- 50 mm (6GF9001-1BJ01)
- 75 mm ** ** (6GF9001-1BK01)

MV440

- SR; 640 x 480 pixel: (6GF3440-1CD10)
- HR; 1024 x 768 pixel: (6GF3440-1GE10)
- UR; 1600 x 1200 pixel: (6GF3440-1LE10)

Lights build-in

- red (6GF3440-8DA11)
- white (6GF3440-8DA21)
- green (6GF3440-8DA31)
- infrared (6GF3440-8DA41)

Lights external *)

- red (6GF3400-0LT01-8DA1)
- infrared (6GF3400-0LT01-7BA1)

+

Cable adapter M16/M12 (6GF3440-8BD1)
Or
Cable M12/open wire (6GF3440-8BC4)

+

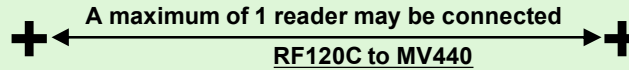
Mounting plate (6GF3440-8CD01)

Options

- D/I/DO *)**
- „Power supply DIO RS232“
- 10 m = 6GF3440-8BA2
 - 30 m = 6GF3440-8BA4
- Software**
- Text-Genius 6GF3400-0SL01
 - Text-Genius Plus 6GF3400-1SL01
 - Veri-Genius 6GF3400-0SL02
 - Pat-Genius 6GF3400-0SL03
- Support**
- Mounting plate 6GF3440-8CA
 - Tri-plate 6GF9002-7AD
- Opt. for Lens rings**
- 0.5, 1, 5, 10, 20, 40 mm
 - 6GF9001-1BU
 - 0.5, 1 mm 6GF9001-1BU01
 - length doubler 6GF9001-1BV
- Filter**
- infrared 6GF9001-2AD
 - polarization 6GF9001-2AF
 - infrared 6GF3440-8CX3
 - daylight 6GF3440-8EA1
- Protective lens cover**
- metal glas 6GF3440-8AC11
 - metal plastic 6GF3440-8AC21
 - plastic (included in basic model) 6GF3440-8AC12

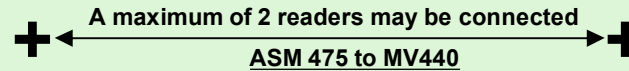
*) Additional power supply needed
**) not in combination with build-in lights;
***) for protection order additional the tube extension 6GF3440-8AC13

SIMATIC PLC S7-1200



- | | |
|-----------------------|----------------------|
| 2 m = 6GT2 091-4LH20 | 5 m = 6GT2 091-4LH50 |
| 10 m = 6GT2 091-4LN10 | |
- And extension cables:
- | | |
|-----------------------|-----------------------|
| 2 m = 6GT2 891-4FH20 | 5 m = 6GT2 891-4FH50 |
| 10 m = 6GT2 891-4FN10 | 20 m = 6GT2 891-4FN20 |
| 50 m = 6GT2 891-4FN50 | |
- Reader connector 90° angled
- | | |
|-----------------------|----------------------|
| 2 m = 6GT2 891-4JH20 | 5 m = 6GT2 891-4JH50 |
| 10 m = 6GT2 891-4JN10 | |

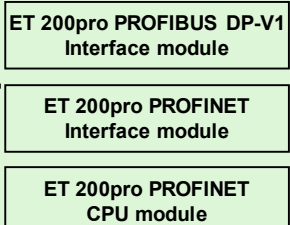
SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



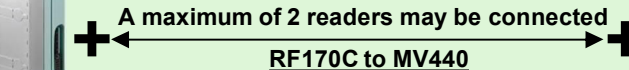
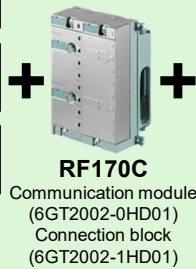
Accessories:
Connecting element (6ES7 390-5AA00-0AA0)
Terminal element (6ES7 390-5BA00-0AA0)

- | | |
|----------------------|----------------------|
| 2 m = 6GT2 891-4EH20 | 5 m = 6GT2 891-4EH50 |
|----------------------|----------------------|
- And extension cables:
- | | |
|-----------------------|-----------------------|
| 2 m = 6GT2 891-4FH20 | 5 m = 6GT2 891-4FH50 |
| 10 m = 6GT2 891-4FN10 | 20 m = 6GT2 891-4FN20 |
| 50 m = 6GT2 891-4FN50 | |
- Reader connector 90° angled
- | | |
|-----------------------|----------------------|
| 2 m = 6GT2 891-4JH20 | 5 m = 6GT2 891-4JH50 |
| 10 m = 6GT2 891-4JN10 | |

ET 200pro via PROFIBUS or PROFINET or S7 PLC

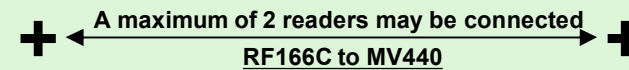


Up to 9 x 170C modules per ET 200pro rack



- | | |
|-----------------------|-----------------------|
| 2 m = 6GT2 891-4FH20 | 5 m = 6GT2 891-4FH50 |
| 10 m = 6GT2 891-4FN10 | 20 m = 6GT2 891-4FN20 |
| 50 m = 6GT2 891-4FN50 | |
- Reader connector 90° angled
- | | |
|-----------------------|----------------------|
| 2 m = 6GT2 891-4JH20 | 5 m = 6GT2 891-4JH50 |
| 10 m = 6GT2 891-4JN10 | |

PROFIBUS



- | | |
|-----------------------|-----------------------|
| 2 m = 6GT2 891-4FH20 | 5 m = 6GT2 891-4FH50 |
| 10 m = 6GT2 891-4FN10 | 20 m = 6GT2 891-4FN20 |
| 50 m = 6GT2 891-4FN50 | |
- Reader connector 90° angled
- | | |
|-----------------------|----------------------|
| 2 m = 6GT2 891-4JH20 | 5 m = 6GT2 891-4JH50 |
| 10 m = 6GT2 891-4JN10 | |

Reader powered through connection cable



- | |
|-----------------------------|
| 6 mm (6GF9001-1BB01) |
| 8.5 mm ** (6GF9001-1BE01) |
| 12 mm (6GF9001-1BL01) |
| 16 mm (6GF9001-1BF01) |
| 25 mm (6GF9001-1BG01) |
| 35 mm (6GF9001-1BH01) |
| 50 mm (6GF9001-1BJ01) |
| 75 mm ** ** (6GF9001-1BK01) |



- | |
|--------------------------|
| red (6GF3440-8DA11) |
| white (6GF3440-8DA21) |
| green (6GF3440-8DA31) |
| infrared (6GF3440-8DA41) |



- | |
|--------------------------------------|
| red (6GF3400-0LT01-8DA1) |
| infrared (6GF3400-0LT01-7BA1) |
| + |
| Cable adapter M16/M12 (6GF3440-8BD1) |
| Or |
| Cable M12/open wire (6GF3440-8BC4) |
| + |
| Mounting plate (6GF3440-8CD01) |

*) Additional power supply needed
**) not in combination with build-in lights;
***) for protection order additional the tube extension 6GF3440-8AC13

Options

D/I/DO *)

„Power supply DIO RS232“

- | |
|---------------------|
| 10 m = 6GF3440-8BA2 |
| 30 m = 6GF3440-8BA4 |

Software

- Text-Genius
6GF3400-0SL01
Text-Genius Plus
6GF3400-1SL01
Veri-Genius
6GF3400-0SL02
Pat-Genius
6GF3400-0SL03

Web Interface

- Use additional IE cable
Various lengths available
2 m = 6XV1871-5TH20

Support

- Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens rings

- | |
|--------------------------|
| 0.5, 1, 5, 10, 20, 40 mm |
| 6GF9001-1BU |
| 0.5, 1 mm |
| 6GF9001-1BU01 |
| length doubler |
| 6GF9001-1BV |

Filter

- infrared
6GF9001-2AD
polarization
6GF9001-2AF
6GF3440-8CX3
daylight
6GF3440-8EA1

Protective lens cover

- metal glas
6GF3440-8AC11
metal plastic
6GF3440-8AC21
plastic (included in basic model)
6GF3440-8AC12

PROFINET & OPC UA & Ethernet/IP & TCP/IP

Communication Modules



A maximum of
1 reader at RF185C,
2 readers at RF186C/CI,
4 readers at RF188C/CI
of MV440 may be connected

2 m = 6GT2 891-4FH20 5 m = 6GT2 891-4FH50
 10 m = 6GT2 891-4FN10 20 m = 6GT2 891-4FN20
 50 m = 6GT2 891-4FN50

Reader connector 90° angled:
 2 m = 6GT2 891-4JH20 5 m = 6GT2 891-4JH50
 10 m = 6GT2 891-4JN10

Additional IOs



RF18xCI to sensor

Sensor cable from
 0.5 to 15 m available
 (e.g. 2 m = 6XV1801-2CH20)

Types of IO-Link I/O module

IO-extension module

6ES7 14..... (up to 8xDI + 8xDO)
See page 76 for detailed information

Or one
Standard sensor

Or one
Actor

Reader

powered through connection cable



Lens

6 mm (6GF9001-1BB01)
 8.5 mm ** (6GF9001-1BE01)
 12 mm (6GF9001-1BL01)
 16 mm (6GF9001-1BF01)
 25 mm (6GF9001-1BG01)
 35 mm (6GF9001-1BH01)
 50 mm (6GF9001-1BJ01)
 75 mm ** ** (6GF9001-1BK01)



MV440

SR; 640 x 480 pixel: (6GF3440-1CD10)
 HR; 1024 x 768 pixel: (6GF3440-1GE10)
 UR; 1600 x 1200 pixel: (6GF3440-1LE10)



Lights build-in

red (6GF3440-8DA11)
 white (6GF3440-8DA21)
 green (6GF3440-8DA31)
 infrared (6GF3440-8DA41)



Lights external *)

red (6GF3400-0LT01-8DA1)
 infrared (6GF3400-0LT01-7BA1)



Cable adapter M16/M12 (6GF3440-8BD1)
 Or
 Cable M12/open wire (6GF3440-8BC4)



Mounting plate (6GF3440-8CD01)

*) Additional power supply needed
 **) not in combination with build-in lights;
 ***) for protection order additional the tube extension 6GF3440-8AC13

Options

DIDO *)

„Power supply
 DIO RS232“

10 m = 6GF3440-8BA2
 30 m = 6GF3440-8BA4

Software

Text-Genius
 6GF3400-0SL01
 Text-Genius Plus
 6GF3400-1SL01
 Veri-Genius
 6GF3400-0SL02
 Pat-Genius
 6GF3400-0SL03

Web Interface

Use additional IE cable
 Various lengths available
 2 m = 6XV1871-5TH20

Support

Mounting plate
 6GF3440-8CA
 Tri-plate
 6GF9002-7AD

Opt. for Lens rings

0.5, 1, 5, 10, 20, 40 mm
 6GF9001-1BU
 0.5, 1 mm
 6GF9001-1BU01
 length doubler
 6GF9001-1BV

Filter

infrared
 6GF9001-2AD
 polarization
 6GF9001-2AF
 6GF3440-8CX3
 daylight
 6GF3440-8EA1

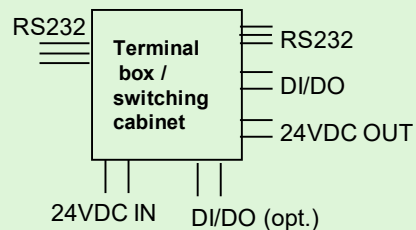
Protective lens cover

metal glas
 6GF3440-8AC11
 metal plastic
 6GF3440-8AC21
 plastic (included in
 basic model)
 6GF3440-8AC12

Serial RS232



Simple text based protocol



1 Reader per COM port may be connected
RS 232 cable for MV440 (open wires) +
 10 m = 6GF3440-8BA2
 30 m = 6GF3440-8BA4

Reader

With external power supply



Lens

- 6 mm (6GF9001-1BB01)
- 8.5 mm ** (6GF9001-1BE01)
- 12 mm (6GF9001-1BL01)
- 16 mm (6GF9001-1BF01)
- 25 mm (6GF9001-1BG01)
- 35 mm (6GF9001-1BH01)
- 50 mm (6GF9001-1BJ01)
- 75 mm ** ***) (6GF9001-1BK01)



MV440

- SR; 640 x 480 pixel: (6GF3440-1CD10)
- HR; 1024 x 768 pixel: (6GF3440-1GE10)
- UR; 1600 x 1200 pixel: (6GF3440-1LE10)



Lights build-in

- red (6GF3440-8DA11)
- white (6GF3440-8DA21)
- green (6GF3440-8DA31)
- infrared (6GF3440-8DA41)



Lights external *)

- red (6GF3400-0LT01-8DA1)
- infrared (6GF3400-0LT01-7BA1)



Cable adapter M16/M12 (6GF3440-8BD1)

Or

Cable M12/open wire (6GF3440-8BC4)



Mounting plate (6GF3440-8CD01)

*) Additional power supply needed
 **) not in combination with build-in lights;
 ***) for protection order additional the tube extension 6GF3440-8AC13

Options

DI/DO *)

Wires included in RS232 / power supply cable
 Open wires

Software

- Text-Genius 6GF3400-0SL01
- Text-Genius Plus 6GF3400-1SL01
- Veri-Genius 6GF3400-0SL02
- Pat-Genius 6GF3400-0SL03

Web Interface

Use additional IE cable
 Various lengths available
 2 m = 6XV1871-5TH20

Support

- Mounting plate 6GF3440-8CA
- Tri-plate 6GF9002-7AD

Opt. for Lens rings

- 0.5, 1, 5, 10, 20, 40 mm 6GF9001-1BU
- 0.5, 1 mm 6GF9001-1BU01
- length doubler 6GF9001-1BV

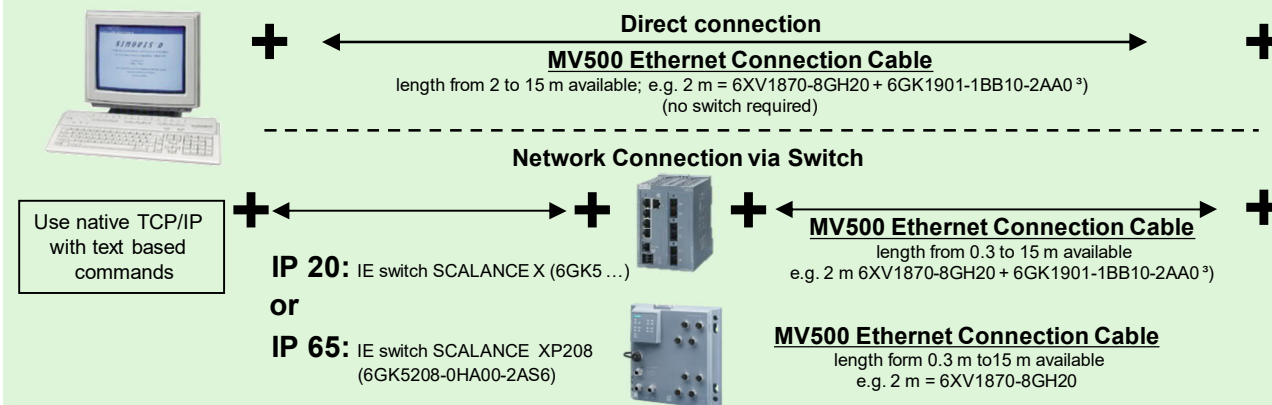
Filter

- infrared 6GF9001-2AD
- polarization 6GF9001-2AF
- 6GF3440-8CX3
- daylight 6GF3440-8EA1

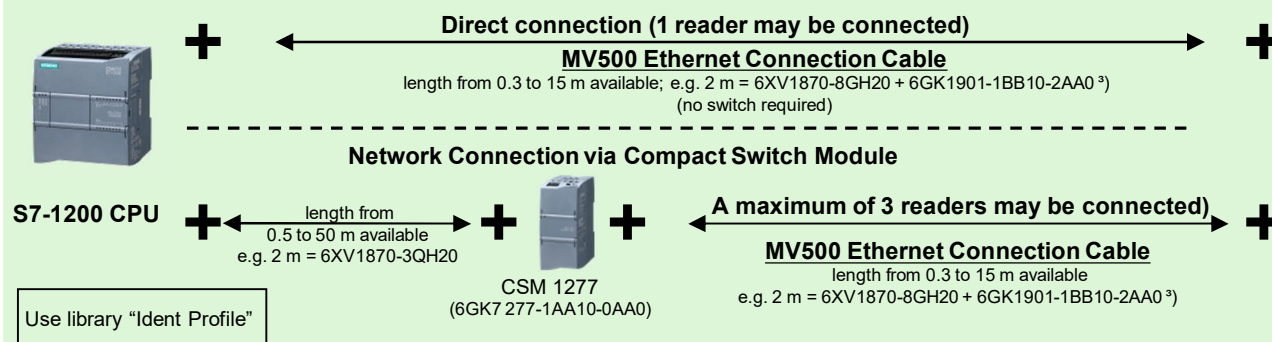
Protective lens cover

- metal glas 6GF3440-8AC11
- metal plastic 6GF3440-8AC21
- plastic (included in basic model) 6GF3440-8AC12

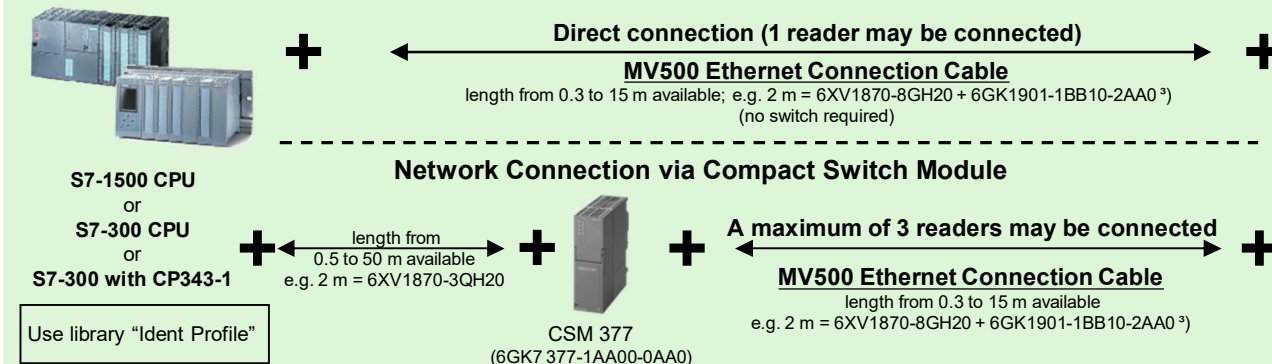
Ethernet TCP/IP



S7-1200 via Industrial Ethernet or PROFINET



S7-300/1500 via Industrial Ethernet or PROFINET



³⁾ Custom assembly necessary; use the correct stripping tool

Reader

With external power supply



MV540

S; 800 x 600 pixel:
 (6GF3540-0CD10)
 H; 1280 x 1024 pixel:
 (6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
 (6GF3550-0CD10)
 H; 1280 x 1024 pixel:
 (6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
 (6GF3560-0LE10)
 X; 2592 x 2048 pixel:
 (6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01^{s)}
 8.5 mm: 6GF9001-1BE01^{sh) 1)}
 12 mm: 6GF9001-1BL01^{sh)}
 12 mm: 6GF3560-8EA01-0FF0^{sh) 1) 4)}
 16 mm: 6GF9001-1BF01^{sh)}
 16 mm: 6GF3560-8EA02-0FF0^{sh) 1) 4)}
 25 mm: 6GF9001-1BG01^{sh)}
 25 mm: 6GF3560-8EA03-0FF0^{sh) 1) 4)}
 35 mm: 6GF9001-1BH01^{shux)}
 50 mm: 6GF9001-1BJ01^{shux)}
 75 mm: 6GF9001-1BK01^{shux) 2)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0^{sh)}
 16 mm: 6GF3540-8EA02-0LL0^{shu)}
 25 mm: 6GF3540-8EA03-0LL0^{shux)}
 35 mm: 6GF3540-8EA04-0LL0^{shux)}
 50 mm: 6GF3540-8EA05-0LL0^{shux) 2)}



Lights build-in

red basic: 6GF3540-8DA11
 red far: 6GF3540-8DA12
 red multi: 6GF3540-8DA13
 white multi: 6GF3540-8DA33
 infrared basic: 6GF3540-8DA41
 infrared far: 6GF3540-8DA42



Lights external: ring

Red: 6GF3400-0LT01-8DA1
 Infrared: 6GF3400-0LT01-7BA1
 +
 adapter M12/M12: 6GF3500-8BD10
 mounting plate: 6GF3440-8CD01



Lights external: panel

20x20 cm: 6GF3500-8DF30-1DA0
 30x20 cm: 6GF3500-8DF30-2DA0
 40x30 cm: 6GF3500-8DF30-3DA0

+
Mounting aid
 6GF3500-8CD

Cable for power supply

Open wires

10 m = 6GF3500-8BA21
 30 m = 6GF3500-8BA41

OR

Power supply

EU connector

6GT2 898-0AA00

UK connector

6GT2 898-0AA10

US connector

6GT2 898-0AA20

cable for 24 V

5 m = 6GT2 891-0PH50
 +
 50 cm = 6GF3500-8BA11
 5 m = 6GF3500-8BA12

¹⁾ not in combination with build-in lights;

²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

⁴⁾ No usage of option „Micro SD Card“ with these lens
^{shux)} indicates the types of camera which are allowed for usage;
 i.e. ^{u)} means MV5x0U is allowed

Options

DO

Wires included in power supply cable „Open wires“

Software

Pat-Genius
 6GF3400-0SL03

Micro SD Card

for Configuration
 Backup; 4GB
 6GK6000-8HT01-0SA2

Support

Mounting plate
 6GF3440-8CA
 Tri-plate
 6GF9002-7AD

Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm
 6GF9001-1BU

0.5, 1 mm
 6GF9001-1BU01

length doubler
 6GF9001-1BV

Protective lens cover

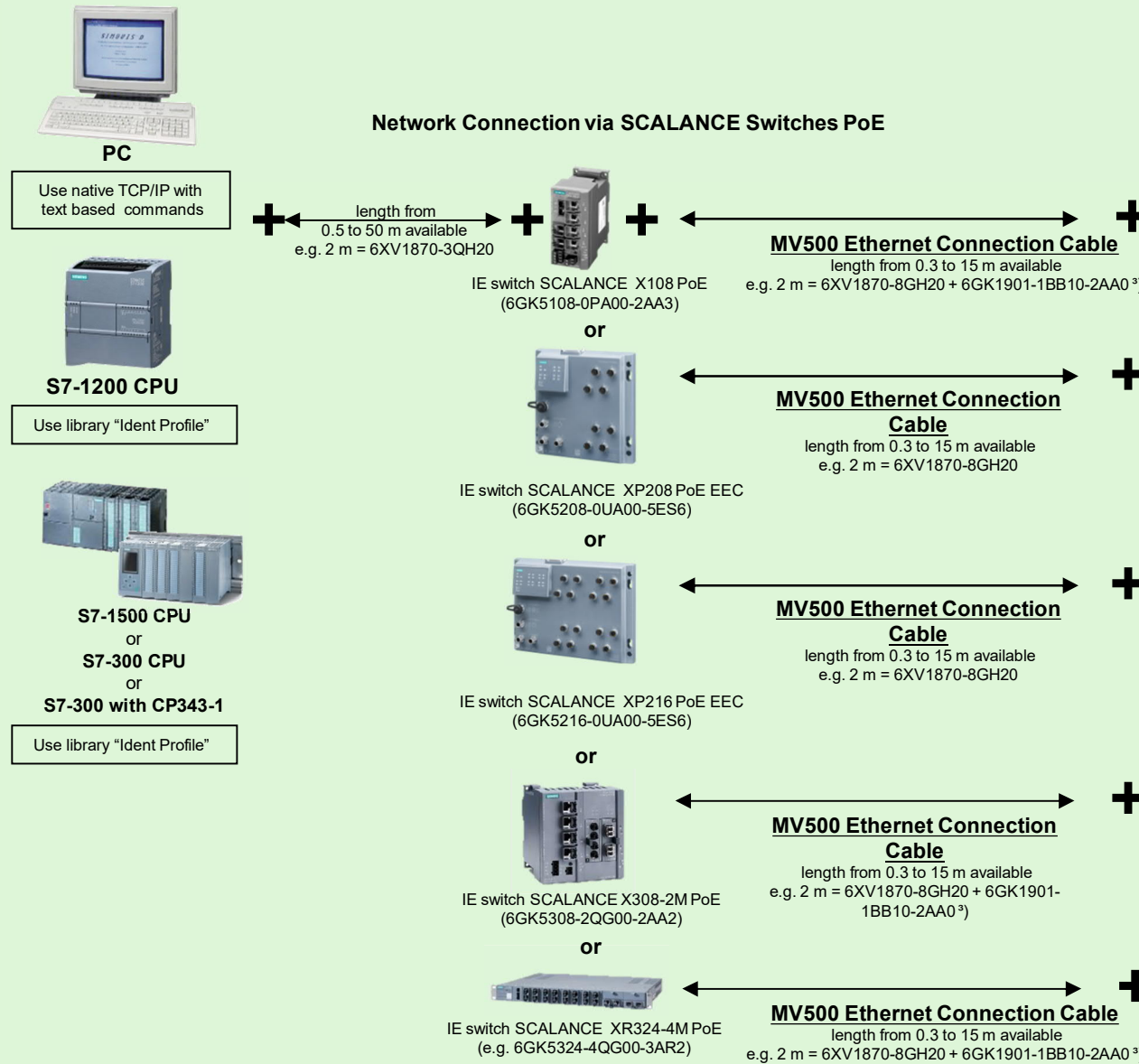
Basic length glas
 no filter 6GF3540-8AC11
 red 6GF3540-8AC51
 infrared 6GF3540-8AC41
 IRUVcut 6GF3540-8AC31

Long version glas²⁾
 no filter 6GF3540-8AC12
 red 6GF3540-8AC52
 infrared 6GF3540-8AC42
 IRUVcut 6GF3540-8AC32

Basic length PMMA
 6GF3540-8AC21

Long version PMMA²⁾
 6GF3540-8AC22

Ethernet TCP/IP or PROFINET (PoE): 100MB



³⁾ Custom assembly necessary; use the correct stripping tool

Reader

With power supply over Ethernet (PoE)



MV540

S; 800 x 600 pixel:
(6GF3540-0CD10)
H; 1280 x 1024 pixel:
(6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01^{s)}
8.5 mm: 6GF9001-1BE01^{sh) 1)}
12 mm: 6GF9001-1BL01^{sh)}
12 mm: 6GF3560-8EA01-0FF0^{sh) 1) 4)}
16 mm: 6GF9001-1BF01^{sh)}
16 mm: 6GF3560-8EA02-0FF0^{sh) 1) 4)}
25 mm: 6GF9001-1BG01^{sh)}
25 mm: 6GF3560-8EA03-0FF0^{sh) 1) 4)}
35 mm: 6GF9001-1BH01^{shux)}
50 mm: 6GF9001-1BJ01^{shux)}
75 mm: 6GF9001-1BK01^{shux) 2)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0^{sh)}
16 mm: 6GF3540-8EA02-0LL0^{shux)}
25 mm: 6GF3540-8EA03-0LL0^{shux)}
35 mm: 6GF3540-8EA04-0LL0^{shux)}
50 mm: 6GF3540-8EA05-0LL0^{shux) 2)}



Lights build-in

red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42

Options

DO

Additional cable for DO-supply is needed

10 m = 6GF3500-8BA21
30 m = 6GF3500-8BA41

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRU/cut 6GF3540-8AC31

Long version glas²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRU/cut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

Long version PMMA²⁾
6GF3540-8AC22

¹⁾ not in combination with build-in lights;

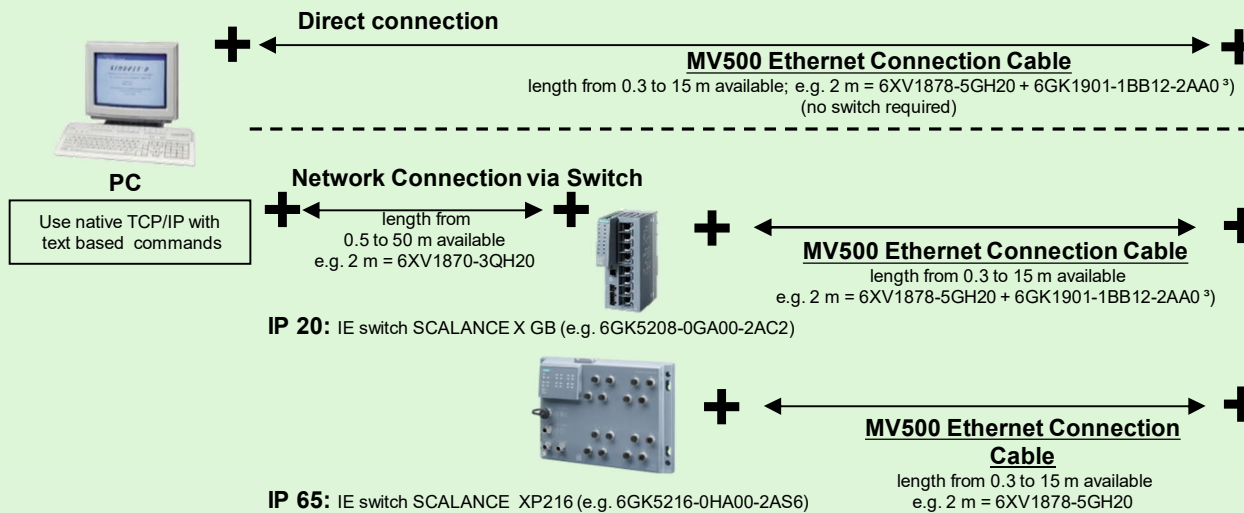
²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

⁴⁾ No usage of option „Micro SD Card“ with these lens

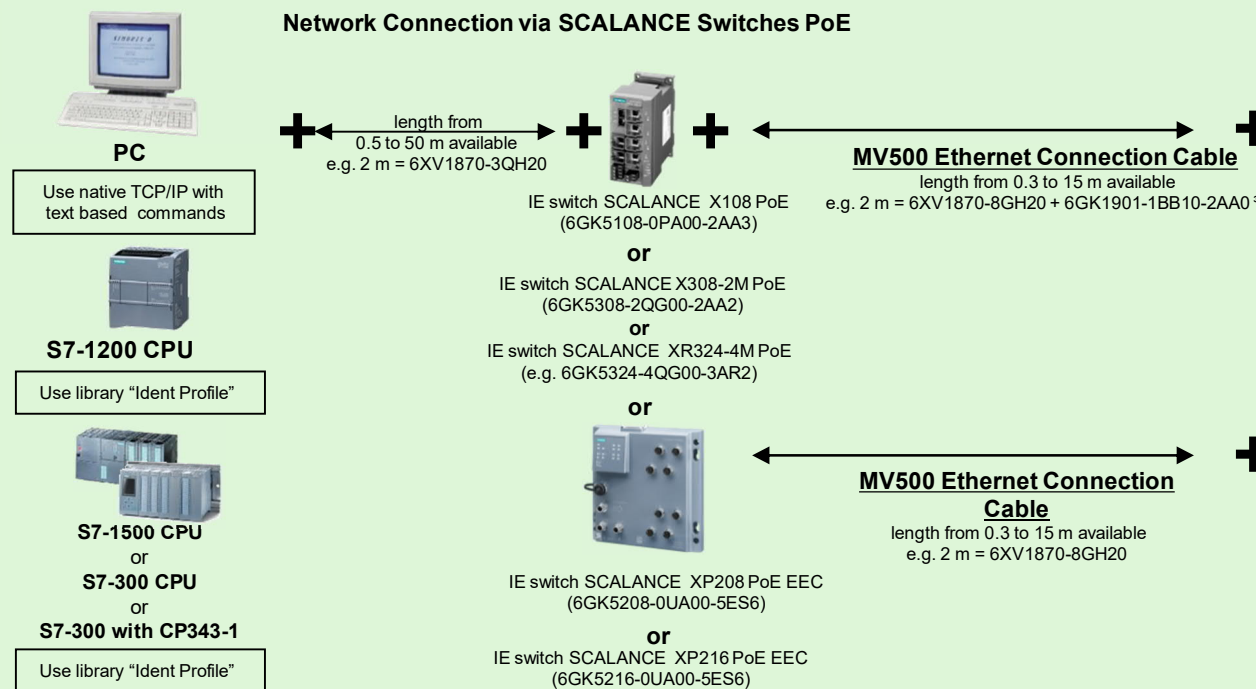
^{shux)} indicates the types of camera which are allowed for usage; i.e. ^{u)} means MV5x0U is allowed

Two parallel Networks on one Device: 1000MB + 100MB

1000MB / GigE Network, no PoE needed



100 MB / Profinet Network, Switch with PoE



Reader

With power supply over Ethernet (PoE)



MV550

S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01^{s)}
8.5 mm: 6GF9001-1BE01^{sh) 1)}
12 mm: 6GF9001-1BL01^{sh)}
12 mm: 6GF3560-8EA01-0FF0^{sh) 1) 4)}
16 mm: 6GF9001-1BF01^{sh)}
16 mm: 6GF3560-8EA02-0FF0^{sh) 1) 4)}
25 mm: 6GF9001-1BG01^{sh)}
25 mm: 6GF3560-8EA03-0FF0^{sh) 1) 4)}
35 mm: 6GF9001-1BH01^{shux)}
50 mm: 6GF9001-1BJ01^{shux)}
75 mm: 6GF9001-1BK01^{shux) 2)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LLO^{sh)}
16 mm: 6GF3540-8EA02-0LLO^{shux)}
25 mm: 6GF3540-8EA03-0LLO^{shux)}
35 mm: 6GF3540-8EA04-0LLO^{shux)}
50 mm: 6GF3540-8EA05-0LLO^{shux) 2)}



Lights build-in

red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42

Options

DO

Additional cable for DO-supply is needed

10 m = 6GF3500-8BA21
30 m = 6GF3500-8BA41

Software

Pat-Genius
6GF3400-OSL03

Micro SD Card

for Configuration Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

Long version glas²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

Long version PMMA²⁾
6GF3540-8AC22

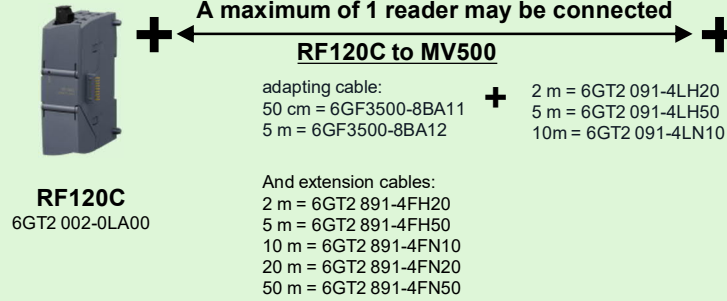
¹⁾ not in combination with build-in lights;

²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LLO

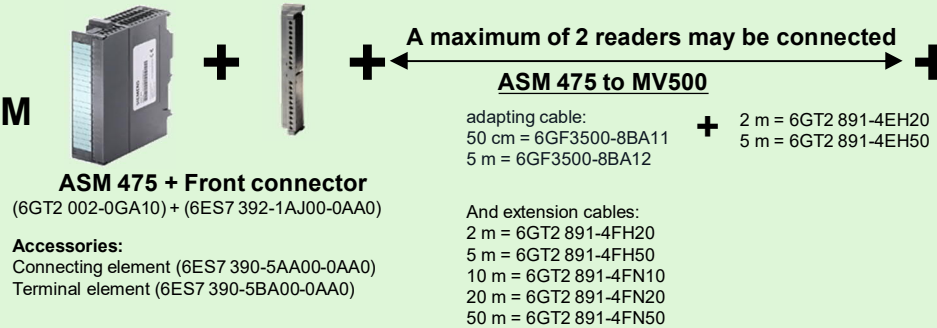
⁴⁾ No usage of option „Micro SD Card“ with these lens

^{shux)} indicates the types of camera which are allowed for usage; i.e. ^{u)} means MV5x0U is allowed

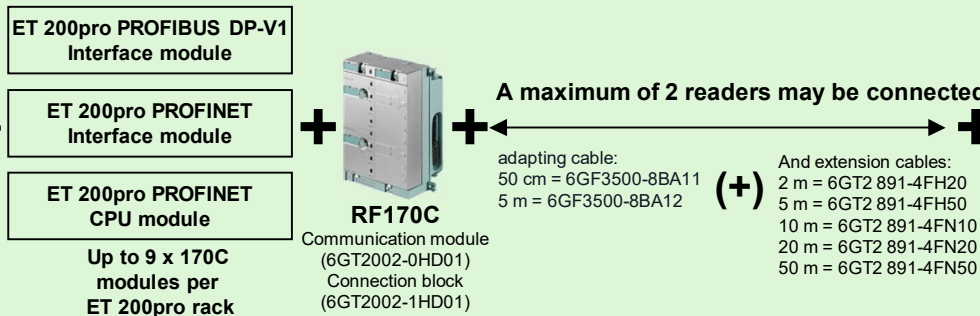
SIMATIC PLC S7-1200



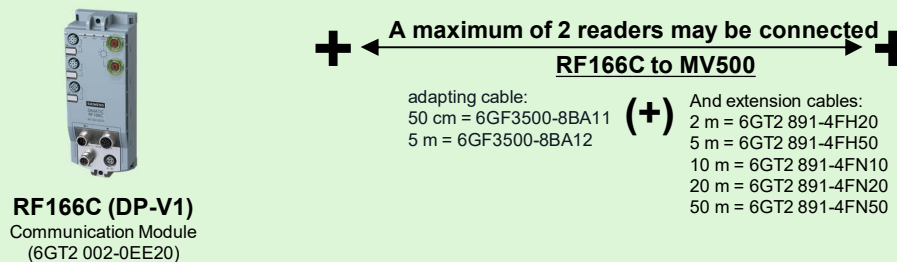
SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



ET 200pro via PROFIBUS or PROFINET or S7 PLC



PROFIBUS



Reader

Powered through connection cable



MV540

S; 800 x 600 pixel:
(6GF3540-0CD10)
H; 1280 x 1024 pixel:
(6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01^{s)}
8.5 mm: 6GF9001-1BE01^{sh) 1)}
12 mm: 6GF9001-1BL01^{sh)}
12 mm: 6GF3560-8EA01-0FF0^{sh) 1) 4)}
16 mm: 6GF9001-1BF01^{sh)}
16 mm: 6GF3560-8EA02-0FF0^{sh) 1) 4)}
25 mm: 6GF9001-1BG01^{sh)}
25 mm: 6GF3560-8EA03-0FF0^{sh) 1) 4)}
35 mm: 6GF9001-1BH01^{shux)}
50 mm: 6GF9001-1BJ01^{shux)}
75 mm: 6GF9001-1BK01^{shux) 2)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0^{sh)}
16 mm: 6GF3540-8EA02-0LL0^{shux)}
25 mm: 6GF3540-8EA03-0LL0^{shux)}
35 mm: 6GF3540-8EA04-0LL0^{shux)}
50 mm: 6GF3540-8EA05-0LL0^{shux) 2)}



Lights build-in

red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42

Options

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration
Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

Long version glas²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

Long version PMMA²⁾
6GF3540-8AC22

1) not in combination with build-in lights;

2) use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

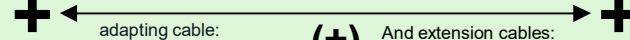
4) No usage of option „Micro SD Card“ with these lens
^{shux)} indicates the types of camera which are allowed for usage;
i.e. ^{u)} means MV5x0U is allowed

PROFINET & Ethernet/IP & OPC UA & TCP/IP

Communication Modules

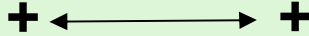


A maximum of
1 reader at RF185C,
2 readers at RF186C/CI,
4 readers at RF188C/CI
 of MV500 may be connected



adapting cable: (+) And extension cables:
 50 cm = 6GF3500-8BA11 2 m = 6GT2 891-4FH20
 5 m = 6GF3500-8BA12 5 m = 6GT2 891-4FH50
 10 m = 6GT2 891-4FN10
 20 m = 6GT2 891-4FN20
 50 m = 6GT2 891-4FN50

Additional IOs



RF18xCI to sensor
 Sensor cable from
 0.5 to 15 m available
 (e.g. 2 m = 6XV1801-2CH20)



Types of IO-Link I/O module

IO-extension module

6ES7 14..... (up to 8xDI + 8xDO)

See page 76 for detailed information

Or one
Standard sensor



Or one
Actor



Reader

Powered through connection cable



MV540

S; 800 x 600 pixel:
 (6GF3540-0CD10)
 H; 1280 x 1024 pixel:
 (6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
 (6GF3550-0CD10)
 H; 1280 x 1024 pixel:
 (6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
 (6GF3560-0LE10)
 X; 2592 x 2048 pixel:
 (6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01 ^{s)}
 8.5 mm: 6GF9001-1BE01 ^{sh) 1)}
 12 mm: 6GF9001-1BL01 ^{sh)}
 12 mm: 6GF3560-8EA01-0FF0 ^{ux) 1) 4)}
 16 mm: 6GF9001-1BF01 ^{sh)}
 16 mm: 6GF3560-8EA02-0FF0 ^{ux) 1) 4)}
 25 mm: 6GF9001-1BG01 ^{sh)}
 25 mm: 6GF3560-8EA03-0FF0 ^{ux) 1) 4)}
 35 mm: 6GF9001-1BH01 ^{shux)}
 50 mm: 6GF9001-1BJ01 ^{shux)}
 75 mm: 6GF9001-1BK01 ^{shux) 2)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0 ^{sh)}
 16 mm: 6GF3540-8EA02-0LL0 ^{shu)}
 25 mm: 6GF3540-8EA03-0LL0 ^{shux)}
 35 mm: 6GF3540-8EA04-0LL0 ^{shux)}
 50 mm: 6GF3540-8EA05-0LL0 ^{shux) 2)}



Lights build-in

red basic: 6GF3540-8DA11
 red far: 6GF3540-8DA12
 red multi: 6GF3540-8DA13
 white multi: 6GF3540-8DA33
 infrared basic: 6GF3540-8DA41
 infrared far: 6GF3540-8DA42



Lights external

Red: 6GF3400-0LT01-8DA1
 Infrared: 6GF3400-0LT01-7BA1
 +
 adapter M12/M12
 (6GF3500-8BD10)
 +
 Mounting plate
 (6GF3440-8CD01)

Options

Software

Pat-Genius
 6GF3400-0SL03

Micro SD Card

for Configuration
 Backup; 4GB
 6GK6000-8HT01-0SA2

Support

Mounting plate
 6GF3440-8CA
 Tri-plate
 6GF9002-7AD

Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm
 6GF9001-1BU

0.5, 1 mm
 6GF9001-1BU01

length doubler
 6GF9001-1BV

Protective lens cover

Basic length glas
 no filter 6GF3540-8AC11
 red 6GF3540-8AC51
 infrared 6GF3540-8AC41
 IRUVcut 6GF3540-8AC31

Long version glas ²⁾
 no filter 6GF3540-8AC12
 red 6GF3540-8AC52
 infrared 6GF3540-8AC42
 IRUVcut 6GF3540-8AC32

Basic length PMMA
 6GF3540-8AC21

Long version PMMA ²⁾
 6GF3540-8AC22

¹⁾ not in combination with build-in lights;

²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

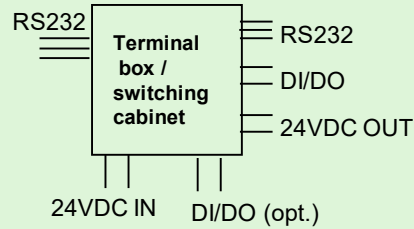
⁴⁾ No usage of option „Micro SD Card“ with these lens

^{shux)} indicates the types of camera which are allowed for usage; i.e. ^{u)} means MV5x0U is allowed

Serial RS232



Simple text based protocol



1 Reader per COM port may be connected

RS 232 cable for MV500 (open wires)

10 m = 6GF3500-8BA21
30 m = 6GF3500-8BA41



Reader

With external power supply



MV540

S; 800 x 600 pixel:
(6GF3540-0CD10)
H; 1280 x 1024 pixel:
(6GF3540-0GE10)

MV550

S; 800 x 600 pixel:
(6GF3550-0CD10)
H; 1280 x 1024 pixel:
(6GF3550-0GE10)

MV560

U; 1920 x 1200 pixel:
(6GF3560-0LE10)
X; 2592 x 2048 pixel:
(6GF3560-0HE10)



Manual focus lens

6 mm: 6GF9001-1BB01 ^{s)}
8.5 mm: 6GF9001-1BE01 ^{sh) 1)}
12 mm: 6GF9001-1BL01 ^{sh)}
12 mm: 6GF3560-8EA01-OFF0 ^{ux) 1) 4)}
16 mm: 6GF9001-1BF01 ^{sh)}
16 mm: 6GF3560-8EA02-OFF0 ^{ux) 1) 4)}
25 mm: 6GF9001-1BG01 ^{sh)}
25 mm: 6GF3560-8EA03-OFF0 ^{ux) 1) 4)}
35 mm: 6GF9001-1BH01 ^{shux)}
50 mm: 6GF9001-1BJ01 ^{shux)}
75 mm: 6GF9001-1BK01 ^{shux) 2)}



E-Focus lens

12 mm: 6GF3540-8EA01-0LL0 ^{sh)}
16 mm: 6GF3540-8EA02-0LL0 ^{shu)}
25 mm: 6GF3540-8EA03-0LL0 ^{shux)}
35 mm: 6GF3540-8EA04-0LL0 ^{shux)}
50 mm: 6GF3540-8EA05-0LL0 ^{shux) 2)}



Lights build-in

red basic: 6GF3540-8DA11
red far: 6GF3540-8DA12
red multi: 6GF3540-8DA13
white multi: 6GF3540-8DA33
infrared basic: 6GF3540-8DA41
infrared far: 6GF3540-8DA42



Lights external: ring

Red: 6GF3400-0LT01-8DA1
Infrared: 6GF3400-0LT01-7BA1



adapter M12/M12: 6GF3500-8BD10
mounting plate: 6GF3440-8CD01



Lights external: panel

20x20 cm: 6GF3500-8DF30-1DA0
30x20 cm: 6GF3500-8DF30-2DA0
40x30 cm: 6GF3500-8DF30-3DA0



Mounting aid
6GF3500-8CD

Options

DO

Wires included in power supply cable „Open wires“

Software

Pat-Genius
6GF3400-0SL03

Micro SD Card

for Configuration Backup; 4GB
6GK6000-8HT01-0SA2

Support

Mounting plate
6GF3440-8CA
Tri-plate
6GF9002-7AD

Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm
6GF9001-1BU

0.5, 1 mm
6GF9001-1BU01

length doubler
6GF9001-1BV

Protective lens cover

Basic length glas
no filter 6GF3540-8AC11
red 6GF3540-8AC51
infrared 6GF3540-8AC41
IRUVcut 6GF3540-8AC31

Long version glas ²⁾
no filter 6GF3540-8AC12
red 6GF3540-8AC52
infrared 6GF3540-8AC42
IRUVcut 6GF3540-8AC32

Basic length PMMA
6GF3540-8AC21

Long version PMMA ²⁾
6GF3540-8AC22

¹⁾ not in combination with build-in lights;

²⁾ use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

⁴⁾ No usage of option „Micro SD Card“ with these lens

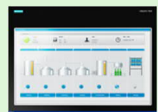
^{shux)} indicates the types of camera which are allowed for usage;

i.e. ^{u)} means MV5x0U is allowed

PC via USB



PC



Panel PC

← 1 Reader per USB port may be connected →

USB cable for MV320/ MV325

The USB-cable (1.8 m) is included in the delivery scope

RF170C

ET200pro
via PROFIBUS
or PROFINET
or S7 PLC

ET200pro PROFIBUS DP-V1
Interface module

ET200pro PROFINET
Interface module

ET200pro PROFINET
CPU module

Up to 9 x 170C
modules per
ET200pro rack



RF170C

Communication module
(6GT2 002-0HD01)
Connection block
(6GT2 002-1HD01)

← A maximum of 2 readers may be connected →

RS 232 cable for MV320

1.6 to 4 m = 6GT2191-0BH50

SIMATIC PLC

S7-1200



RF120C
6GT2 002-0LA00

Up to 3 x RF120C modules
per S7-1200 rack





← A maximum of 1 readers may be connected →

RF120C to MV320

1.6 to 4 m = 6GT2191-1BH50

Reader


Powered through USB-cable


MV320
(6GF3320-0HT01)

MV325 with Docking station
(6GF3325-0HT01)


Options



Docking station for MV325
(6GF3325-0AC03)



Spare Battery for MV325
(6GF3325-0AC07)



Metal stand for MV320
(6GF3320-0AC07)

Reader

Powered through connection cable



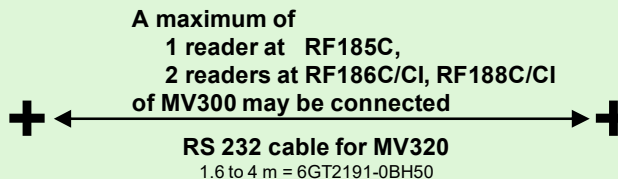
MV320
(6GF3320-0HT01)

PROFINET & Ethernet/IP

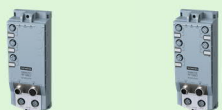
Communication Modules



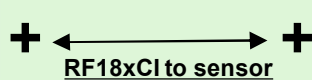
RF185C
(6GT2 002-0JE10) **RF186C**
(6GT2 002-0JE20) **RF188C**
(6GT2 002-0JE40)



Additional IOs



RF186CI
(6GT2 002-0JE50) **RF188CI**
(6GT2 002-0JE60)



Sensor cable from
0.5 to 15 m available
(e.g. 2 m = 6XV1801-2CH20)



**Types of IO-Link
IO module**

IO-extension module
6ES7 14..... (up to 8xDI + 8xDO)

See page 76 for detailed information



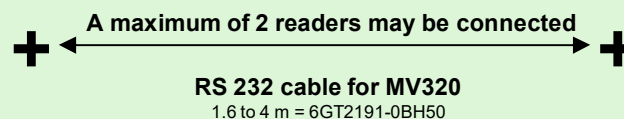
Or one Standard sensor

Or one Actor

PROFIBUS



RF166C (DP-V1)
Communication Module
(6GT2 002-0EE20)



RS232

For SIMATIC and other PLC

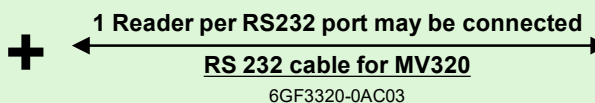


i.e. S7-1500 CPU

+



CM PtP RS 232 BA
(6ES7540-1AD00-0AA0)



power supply

5V cable via USB
1m = 6GT2091-7UH10

+

- use an already available and unused USB port or
- standard USB power supply from the market

Reader

Powered through connection cable



MV320
(6GF3320-0HT01)

Options



**Metal stand for
MV320**
(6GF3320-0AC07)

Reader

With external power supply



MV320
(6GF3320-0HT01)

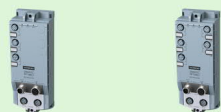
PROFINET & Ethernet/IP

Communication Modules



RF185C (6GT2 002-0JE10) **RF186C** (6GT2 002-0JE20) **RF188C** (6GT2 002-0JE40)

Additional IOs



RF186CI (6GT2 002-0JE50) **RF188CI** (6GT2 002-0JE60)

RF18xCI to sensor

Sensor cable from 0,5 to 15 m available (e.g. 2 m = 6XV1801-2CH20)

A maximum of
1 serial device at RF185C,
2 serial devices at RF186C/CI,
4 serial devices at RF188C/CI**
 may be connected via **RS232* or RS422**

Customer assembled cable: CM connector (6GT2090-0BE00)
 Bulk cable i.e. 50 m (6GT2 090-4AN50)
 Device connector (Order via distributor)

Types of IO-Link
 I/O module

IO-extension module
 6ES7 14..... (up to 8xDI + 8xDO)

See page 76 for detailed information

Or one
 Standard sensor

Or one
 Actor

PROFIBUS



RF166C (DP-V1)
 Communication Module
 (6GT2 002-0EE20)

A maximum of 2 readers may be connected
RF166C to serial device via RS232* or RS422

Customer assembled cable: CM connector (6GT2090-0BE00)
 Bulk cable i.e. 50 m (6GT2 090-4AN50)
 Device connector (Order via distributor)

RF170C

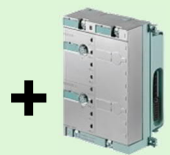
ET200pro
 via PROFIBUS
 or PROFINET
 or S7 PLC

ET200pro PROFIBUS DP-V1
 Interface module

ET200pro PROFINET
 Interface module

ET200pro PROFINET
 CPU module

Up to 9 x 170C
 modules per
 ET200pro rack



RF170C
 Communication module
 (6GT2 002-0HD01)
 Connection block
 (6GT2 002-1HD01)

A maximum of 2 readers may be connected
RF170C to serial device via RS232* or RS422

Customer assembled cable: CM connector (6GT2090-0BE00)
 Bulk cable i.e. 50 m (6GT2 090-4AN50)
 Device connector (Order via distributor)

*) always use short cables (maximum 5 m) when using 5V power supply from CM
 **) on RS232 usage: only 2 serial devices can be connected

Serial device

powered through connection cable

Provided power from CM:

24 Volt
 up to 800 mA for each device

5 Volt* (only when RS232 is used)
 up to 500 mA for each device

Examples of devices:



i.e. scanners, handheld devices

Options

Always refer to
 the manual of
 the connected
 device

Cabling:

Use a bulk cable (i.e. 6GT2090-4AN50) and assemble left side the CM connector 6GT2090-0BE00. The right side connector you may order via distributor for electronic components

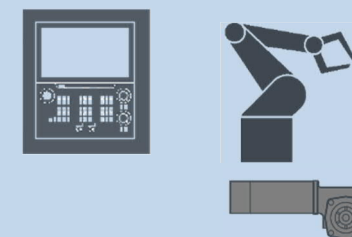
Serial device

powered with external power supply

Provided power:

Always customer
 specific power supply

Examples of devices:



i.e. robots, motors, tooling machines

Or

Use the cable delivered by the device, cut the left side connector and replace it with a plug 6GT2090-0BE00

Or (only RS422)

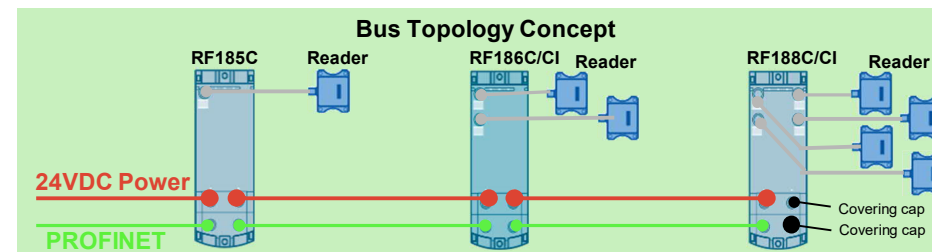
You may use one of the standard reader cable 6GT2891-4F, cut and replace the connector on the right side (device side)

RF18xC /CI Bill of Materials Guide



The RF18xC is a communication module that can connect to Ethernet-based networks via an M12 d-coded connector. It supports a variety of protocols like PROFINET, Ethernet/IP, OPC UA, TCP/IP. A integrated switch enables star and line topologies. The module has L-coded M12 connectors for the 24 V power supply. The power can be transferred to additional loads at a second L-coded female connector. The L-coded connectors can transmit a continuous current of up to 16 A.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.



| Description | Part Number | Notes |
|---|--|--|
| RF185C RF186C RF188C RF186CI RF188CI | 6GT2 002-0JE10 6GT2 002-0JE20 6GT2 002-0JE40 6GT2 002-0JE50 6GT2 002-0JE60 | 1 read/write device or reader 2 read/write devices or readers 4 read/write devices or readers 2 read/write devices or readers plus sensors 4 read/write devices or readers plus sensors can be connected to PROFINET or Ethernet (OPC UA) |
| Make your own M12 PROFINET connection cables | | |
| SIMATIC NET Ethernet M12 4-pin connector | 6GK1 901-0DB10-6AA0 | Ethernet to CM. 2 x M12 4-pin connectors needed if loop-through |
| RJ45 connector with metal casing and FC connection system, 180° cable outlet | 6GK1 901-1BB10-2AA0 | For connection into standard RJ45-type Ethernet switch |
| ETHERNET industrial cable 2x2, Type A, unassembled | 6XV1 840-2AH10 | Sold by the meter Minimum length 20 m; Maximum length 1000 m |
| Use pre-made M12 PROFINET connection cables | | |
| Pre-assembled PROFINET cable with 4-pin M12 on both ends | 6XV1 870-8Axxx* 6XV1 870-8Gxxx* | ...8A = 180° , ...8G = 90° 0.3 m– 15 m pre-assembled cable |
| Pre-assembled PROFINET cable with 4-pin M12 / RJ45 | 6XV1871-5Txxx* | 0.3 m– 15 m pre-assembled cable RJ45 for switch / PC / controller |
| Make your own M12 L-coded power supply connection cables | | |
| Power cable (4 wire x 1.5 mm ² , trailing type) | 6XV1801-2B | For the supply of the 24 VDC power, from 20m up to 1000m |
| M12 L-coded – male connector | 6GK1906-0EA00 | For the loop-through of the 24 VDC power, screw joint for wires up to 1.5 mm ² |
| M12 L-coded – female connector | 6GK1906-0EB00 | For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm ² |
| Use pre-made M12 L-coded power supply connection cables | | |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 180° | 6XV1801-6Dxxx* | Lengths available from 0.5 m up to 15 m |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 90° | 6XV1801-6Gxxx* | Lengths available from 0.5 m up to 15 m |
| Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side | 6GT2091-0PH50 | Length 5 m Useful to connect the CM directly to a power supply of type 6GT2898-0ACx0 |

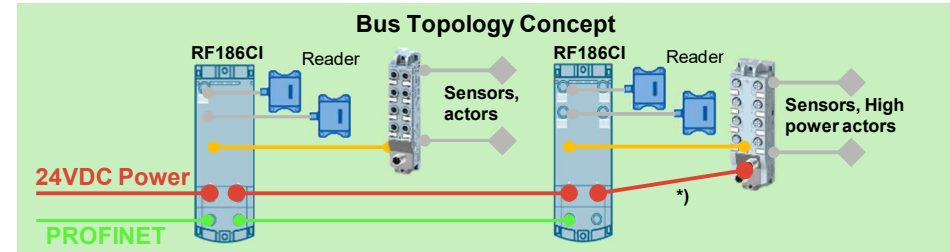
| Description | Part Number | Notes |
|--|---------------------|--|
| Make your own RF18xC to RF reader cables | | |
| Refer to the Bulk cable and connectors tables (Pages 79 - 80) | | |
| Use pre-made RF18xC to RF reader cables | | |
| Reader cable R200/ RF300/ MV440 or Extension cable for RF200/ RF300/ MV400 /MV500 | 6GT2 891-4FH20 | 2 meter pre-assembled cable |
| | 6GT2 891-4FH50 | 5 meter pre-assembled cable |
| | 6GT2 891-4FN10 | 10 meter pre-assembled cable |
| | 6GT2 891-4FN20 | 20 meter pre-assembled cable |
| | 6GT2 891-4FN50 | 50 meter pre-assembled cable |
| Reader cable to RF1000 | 6GT2891-4UH20 | 2 meter pre-assembled cable |
| Reader cable to MV320 | 6GT2191-0BH50 | 5 meter pre-assembled coiled cable with a usable length between 1.6 and 4 meter |
| Reader cable MV420 | 6GF3420-0AC00-2CB0 | 2 meter pre-assembled cable |
| Reader cable MV500 | 6GF3500-8BA11 | 0.5 meter pre-assembled cable |
| | 6GF3500-8BA12 | 5 meter pre-assembled cable |
| Additional components | | |
| Covering caps for unused M12 ports | 3RX9 802-0AA00 | 1 pack = 10 items |
| Labels 10 x 5 mm for CM channel marking | 6ES7194-2BA00-0AA0 | For additional marking. Per default labels are included in CM package |
| Make your own M12 sensor cable (only RF18xC/CI variants) | | |
| M12 A-coded – male connector, 4 pin | 6GK1 907-0DB10-6AA3 | Sensor Connector at CM-side for cable diameter 6 – 8 mm |
| M12 A-coded – female connector, 4 pin | 6GK1 907-0DC10-6AA3 | Sensor-side connector for cable diameter 6 – 8 mm |
| Sensor cable five wire | 6XV1801-2C | bulk cable; minimum order 20 meter |
| M12 A-coded – male connector, 5 pin, 180° | 6GK1 908-0DB10-6AA0 | Sensor connector at CM-side Required for assembling an IO-Link port Class B cable |
| M12 A-coded – female connector, 5 pin, 180° | 6GK1 908-0DC10-6AA0 | Sensor connector at sensor-side |
| Use pre-made M12 sensor cable (only RF18xC/CI variants) | | |
| IO-Link (port Class B) sensor cable with M12 A-coded 5-pin connectors (male and female) | 6XV1801-2Cxxx* | Lengths available from 0.5 m up to 15 m |

* These cables are available in various lengths (see catalogue or mall)



The RF18xCI variants allow the connecting of a variety of IO-Link I/O modules. A maximum of 8 sensors (inputs) and 8 actors (outputs) may be connected to one CM. There is no additional configuration necessary for the I/Os. The I/Os can be used with all available protocols: PROFINET, Ethernet/IP, OPC UA and TCP/IP. Read this page for connecting details.

The designer chooses whether to purchase pre-made sensor cable or to make his/her own (see page 75)



| Description | Part Number | Notes |
|-------------|----------------|---|
| RF186CI | 6GT2 002-0JE50 | 2 read/write devices or readers plus sensors |
| RF188CI | 6GT2 002-0JE60 | 4 read/write devices or readers plus sensors can be connected to PROFINET or Ethernet (OPC UA) |

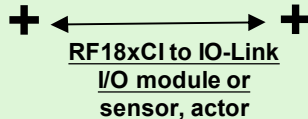
Sensor/actor cabling



RF186CI
(6GT2 002-0JE50)



RF188CI
(6GT2 002-0JE60)



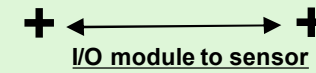
- 0.5 m = 6XV1801-2CE50
- 1 m = 6XV1801-2CH10
- 1.5 m = 6XV1801-2CH15
- 2 m = 6XV1801-2CH20
- 3 m = 6XV1801-2CH30
- 5 m = 6XV1801-2CH50
- 10 m = 6XV1801-2CN10
- 15 m = 6XV1801-2CN15

*) Some IO modules for high output current need an extra L-coded power cable
6XV1801-6Dxxx from 0.5 to 15 m

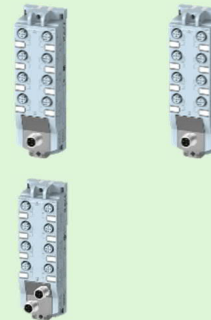


I/O modules with M8 sensor connectors

- 6ES7 141-5BF00-0BL0 (8xDI)
- 6ES7 143-5BF00-0BL0 (4xDI + 4xDO)
- 3RK5 010-0CA00-0AA0 (8xDI; K20)**

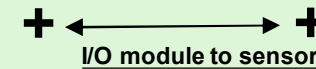


Use sensor cables from the sensor market



I/O modules with M12 sensor connectors

- 6ES7 141-5AH00-0BL0 (8xDI)
- 6ES7 143-5AH00-0BL0 (8xDI + 8xDO)
- 3RK5 010-0BA10-0AA0 (4xDI; K20)**
- 6ES7 142-5AF00-0BL0 (8xDO, 2A)
- Extra M12 L-coded power cable needed *)



- 0.5 m = 6XV1801-2CE50
- 1 m = 6XV1801-2CH10
- 1.5 m = 6XV1801-2CH15
- 2 m = 6XV1801-2CH20
- 3 m = 6XV1801-2CH30
- 5 m = 6XV1801-2CH50
- 10 m = 6XV1801-2CN10
- 15 m = 6XV1801-2CN15



One standard sensor
Or one actor, lamp

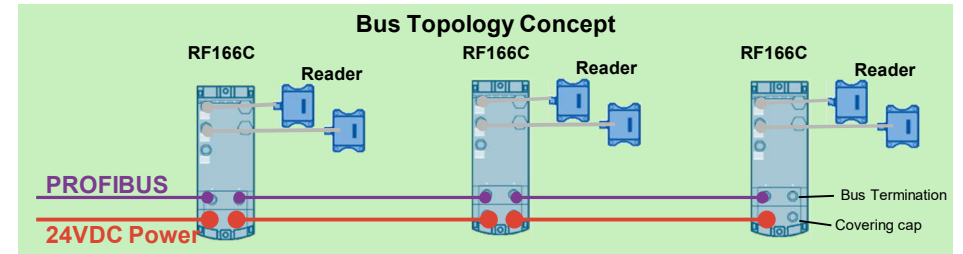
**) K20 are older types of Input modules without picture

RF166C Bill of Materials Guide



The RF166C is a PROFIBUS DP-V1 interface module. The PROFIBUS connection is made via M12 B-coded connector. The module has L-coded M12 connectors for the 24 V power supply. The power can be transferred to additional loads at a second L-coded female connector. The L-coded connectors can transmit a continuous current of up to 16 A.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that another design consideration is whether the RF166C is a PROFIBUS end-node or not. If it is an end-node, a Termination Resistor is required.



| Description | Part Number | Notes |
|---|-----------------|---|
| RF166C | 6GT2 002-0EE20 | For PROFIBUS DP-V1 networks. 2 read/write devices or readers can be connected The devices may have RS422 or RS232 interface |
| Make your own M12 PROFIBUS connection cables | | |
| PROFIBUS M12 connector plug (5 per pack) with socket insert | 6GK1 905-0EB00 | For the supply side of the PROFIBUS network. Use Termination Resistor on the 2nd M12 port if RF166C is an end node |
| PROFIBUS M12 connector plug (5 per pack) with pin insert | 6GK1 905-0EA00 | For loop-through side of the PROFIBUS network. Both ports are used. No Termination Resistor needed for that RF166C |
| POFIBUS standard non-assembled cable | 6XV1 830-0EH10 | Sold by the meter Minimum length 20 m Maximum length 10000 m |
| M12 Termination Resistor for PROFIBUS (5 per pack) | 6GK1 905-0EC00 | Required if RF166C is an end-node |
| Use pre-made M12 PROFIBUS connection cables | | |
| PROFIBUS cable with pre-assembled M12 connectors | 6XV1 830-3Dxxx* | See Online Mail (http://mail.automation.siemens.com) Lengths available from 0.5 m up to 15 m |
| M12 Termination Resistor for PROFIBUS (5 per pack) | 6GK1 905-0EC00 | Required if RF166C is an end-node |
| Make your own M12 L-coded power supply connection cables | | |
| Power cable (4 wire x 1.5 mm ² , trailing type) | 6XV1801-2B | For the supply of the 24 VDC power, from 20m up to 1000m |
| M12 L-coded – male connector | 6GK1906-0EA00 | For the loop-through of the 24 VDC power, screw joint for wires up to 1.5 mm ² |
| M12 L-coded – female connector | 6GK1906-0EB00 | For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm ² |
| Use pre-made M12 L-coded power supply connection cables | | |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 180° | 6XV1801-6Dxxx* | Lengths available from 0.5 m up to 15 m |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 90° | 6XV1801-6Gxxx* | Lengths available from 0.5 m up to 15 m |
| Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side | 6GT2091-0PH50 | Length 5 m Useful to connect the CM directly to a power supply of type 6GT2898-0ACx0 |

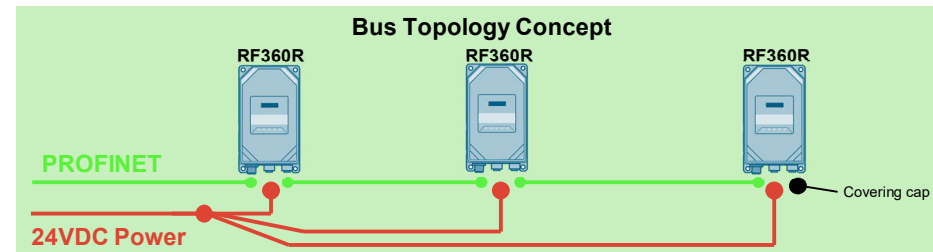
| Description | Part Number | Notes |
|---|---------------------|---|
| Make your own RF166C to RF reader cables | | |
| Refer to the Bulk cable and connectors tables (Pages 79- 80) | | |
| Use pre-made RF166C to RF reader cables | | |
| Reader cable R200/ RF300/ RF600 /MV440 or Extension cable for RF200/ RF300/ RF600/ MV400 /MV500 | 6GT2 891-4FH20 | 2 meter pre-assembled cable |
| | 6GT2 891-4FH50 | 5 meter pre-assembled cable |
| | 6GT2 891-4FN10 | 10 meter pre-assembled cable |
| | 6GT2 891-4FN20 | 20 meter pre-assembled cable |
| | 6GT2 891-4FN50 | 50 meter pre-assembled cable |
| Reader cable to RF1000 | 6GT2891-4UH20 | 2 meter pre-assembled cable |
| Reader cable to MV320 | 6GT2191-0BH50 | 5 meter pre-assembled coiled cable with a usable length between 1.6 and 4 meter |
| Reader cable MV420 | 6GF3420-0AC00-2CB0 | 2 meter pre-assembled cable |
| Reader cable MV500 | 6GF3500-8BA11 | 0.5 meter pre-assembled cable |
| | 6GF3500-8BA12 | 5 meter pre-assembled cable |
| Additional components | | |
| Covering caps for unused M12 ports | 3RX9 802-0AA00 | 1 pack = 10 items |
| Labels 10 x 5 mm for CM channel marking | 6ES7194-2BA00-0AA0 | For additional marking. Per default labels are included in CM package |
| Make your own M12 Ethernet connection cables (needed for web-based management) | | |
| SIMATIC NET Ethernet M12 4-pin connector | 6GK1 901-0DB10-6AA0 | Ethernet to RF166C. 2 x M12 4-pin connectors needed if loop-through |
| RJ45 connector with metal casing and FC connection system, 180° cable outlet | 6GK1 901-1BB10-2AA0 | For connection into standard RJ45-type Ethernet switch |
| ETHERNET industrial cable 2x2, Type A, unassembled | 6XV1 840-2AH10 | Sold by the meter Minimum length 20 m; Maximum length 1000 m |
| Use pre-made M12 Ethernet connection cables (needed for web-based management) | | |
| Pre-assembled Ethernet cable with 4-pin M12 at RF166C and RJ45 at computer | 6XV1871-5Txxx* | 2 m– 15 m pre-assembled cable Use this cable type if the wbm of the RF166C is directly connected to a PC |
| Pre-assembled PROFINET cable with 4-pin M12 on both ends | 6XV1 870-8xxx* | 0.3 m– 15 m pre-assembled cable Use this cable type if the RF166C is connected to a IP 65 switch |

* These cables are available in various lengths (see catalogue or mail)



The RF360R is a reader from the RF300 family that can connect to Ethernet-based networks via an M12 d-coded connector. It supports a variety of protocols like PROFINET, Ethernet/IP, OPC UA, TCP/IP. A integrated switch enables star and line topologies. The module has L-coded M12 connectors for the 24 V power supply.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.



| Description | Part Number | Notes |
|------------------------------------|----------------|-------------------|
| Additional components | | |
| Covering caps for unused M12 ports | 3RX9 802-0AA00 | 1 pack = 10 items |

| Description | Part Number | Notes |
|---|------------------------------------|--|
| RF360R | 6GT2801-5BA30 | RF300 Reader with integrated antenna |
| Make your own M12 PROFINET connection cables | | |
| SIMATIC NET Ethernet M12 4-pin connector | 6GK1 901-0DB10-6AA0 | Ethernet to reader. 2 x M12 4-pin connectors needed if loop-through |
| RJ45 connector with metal casing and FC connection system, 180° cable outlet | 6GK1 901-1BB10-2AA0 | For connection into standard RJ45-type Ethernet switch |
| ETHERNET industrial cable 2x2, Type A, unassembled | 6XV1 840-2AH10 | Sold by the meter Minimum length 20 m; Maximum length 1000 m |
| Use pre-made M12 PROFINET connection cables | | |
| Pre-assembled PROFINET cable with 4-pin M12 on both ends | 6XV1 870-8Axxx* 6XV1 870-8Gxxx* | ...8A = 180° , ...8G = 90° 0.3 m– 15 m pre-assembled cable |
| Pre-assembled PROFINET cable with 4-pin M12 / RJ45 | 6XV1871-5Txxx* | 0.3 m– 15 m pre-assembled cable RJ45 for switch / PC / controller |
| Make your own M12 L-coded power supply connection cables | | |
| Power cable (4 wire x 1.5 mm ² , trailing type) | 6XV1801-2B | For the supply of the 24 VDC power, from 20m up to 1000m |
| M12 L-coded – male connector | 6GK1906-0EA00 | For the loop-through of the 24 VDC power, screw joint for wires up to 1.5 mm ² |
| M12 L-coded – female connector | 6GK1906-0EB00 | For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm ² |
| Use pre-made M12 L-coded power supply connection cables | | |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 180° | 6XV1801-6Dxxx* | Lengths available from 0.5 m up to 15 m |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 90° | 6XV1801-6Gxxx* | Lengths available from 0.5 m up to 15 m |
| Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side | 6GT2091-0PH50 | Length 5 m Useful to connect the reader directly to a power supply of type 6GT2898-0ACx0 |

* These cables are available in various lengths (see catalogue or mall)

Bulk Cable and Connectors

| | RF166C | RF120C | ASM 475 | RS232 to PC | Ethernet to PC | RF170C | RF185C, RF186C/CI, RF188C/CI |
|---|--|---|--|--|--|---|---|
| RF200 | | | | | | | |
| RF2x0R (IO-Link) | For IP 20 Master with screws or push in: 6XV1 801-2C (5 wire sensor cable; minimum order 20 m) 6GK1 908-0DC10-6AA0 (reader connector; never assemble pin 2) | | | | For IP 67 Master with M12: 6XV1 801-2C (5 wire sensor cable; minimum order 20 m) 6GK1 908-0DC10-6AA0 (reader connector; never assemble pin 2) 6GK1 908-0DB10-6AA0 (IO-Link master connector) | | |
| RF2X0R RF210M (RS422) (CM type) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 9-pin submin-D/M (CM connector) ¹ | 6GT2090-4AN50 (50 m cable) 6GT2090-4AT12 (120 m cable) 6GT2090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 20-pin S7-300 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) PC side: interface converter RS422/ RS232 | Not applicable | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) |
| RF240R RF250R RF260R RF285R RF290R (RS232) | Not applicable | Not applicable | Not applicable | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2 490-1AA00 (PC connector) | Not applicable | Not applicable | Not applicable |
| RF300 | | | | | | | |
| RF3x0R (RS422) (CM type) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 9-pin submin-D/M (CM connector) ¹ | 6GT2090-4AN50 (50 m cable) 6GT2090-4AT12 (120 m cable) 6GT2090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 20-pin S7-300 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) PC side: interface converter RS422/ RS232 | Not applicable | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) |
| RF38xR (RS232) | Not applicable | Not applicable | Not applicable | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2 490-1AA00 (PC connector) | Not applicable | Not applicable | Not applicable |
| RF600 | | | | | | | |
| RF650R | Not applicable | Not applicable | Not applicable | Not applicable | 6XV1 840-2AH10 (>20 m cable) 6GK1901-1BB10-2AA0 (RJ45, reader connector + network connector) | Not applicable | Not applicable |
| RF610R/ RF615R/ RF680R/ RF685R | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) | Not applicable | Not applicable | Not applicable | 6XV1 840-2AH10 (>20 m cable) 6GK1901-0DB20-6AA0 (M12 Plug, reader connector) 6GK1901-1BB10-2AA0 (RJ45, network connector) | Not applicable | Not applicable |
| RF1000 | | | | | | | |
| RF1040R/ RF1070R | Always use assembled cables: 6GT2891-4UH20 (2m) | Always use assembled cables: 6GT2891-6UH20 (2m) | Not applicable | Always use assembled cables: 6GT2891-2UH30 (3m, open) 6GT2891-7UH18 (1.8m, sub-D) | Not applicable | Always use assembled cables 6GT2891-4UH20 (2m) | Always use assembled cables: 6GT2891-4UH20 (2m) |

| | RF166C | RF120C | ASM 475 | RS232 to PC | Ethernet to PC | RF170C | RF185C, RF186C/CI, RF188C/CI |
|----------------------|---|---|--|--|---|---|---|
| MV400 / MV500 | | | | | | | |
| MV420 | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 12-pin M16/F (reader connector) ² 6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 12-pin M16/F (reader connector) ² 9-pin submin-D/M (CM connector) ¹ | 6GT2 090-4AN50 (50 m cable) 6GT2 90-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 12-pin M16/F (reader connector) ² 20-pin S7-300 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 12-pin M16/F (reader connector) ² 6GT2 490-1AA00 (PC connector) | 6XV1 840-2AH10 (>20 m) 6GK1 901-0DB20-6AA0 (4-pin M12 d coded, reader connector) 6GK1901-1BB10-2AA0 (RJ45, network connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 12-pin M16/F (reader connector) ² 6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 12-pin M16/F (reader connector) ² 6GT2090-0BE00 (CM connector) |
| MV440 | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 9-pin submin-D/M (CM connector) ¹ | 6GT2 090-4AN50 (50 m cable) 6GT2 90-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 20-pin S7-300 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 12-pin M16/F (reader connector) ² 6GT2 490-1AA00 (PC connector) | 6XV1 840-2AH10 (>20 m) 6GK1 901-0DB20-6AA0 (4-pin M12 d coded, reader connector) 6GK1901-1BB10-2AA0 (RJ45, network connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GT2090-0BE00 (CM connector) |
| MV500 | Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 30 m = 6GF3 500-8BA41 6GT2090-0BE00 (CM connector) | Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 30 m = 6GF3 500-8BA41 9-pin submin-D/M (CM connector) ¹ | Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 30 m = 6GF3 500-8BA41 20-pin S7-300 (CM connector) | Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 30 m = 6GF3 500-8BA41 6GT2 490-1AA00 (PC connector) | Always use reader-side assembled cables with 90° angled connector 100 MB: 6XV1 870-8xxx (0.3 to 15 m) 6GK1 901-1BB10-2AA0 (RJ45, 2x2) 6GK1 901-0DB20-6AA0 (M12, 2x2) 1000 MB: 6XV1 878-5Gxxx (0.3 to 15 m) 6GK1 901-1BB12-2AA0 (RJ45, 4x2) 6GK1 901-0DB30-6AA0 (M12, 4x2) The connectors (M12, RJ45) can be assembled after cutting one connector of an existing cable | Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 30 m = 6GF3 500-8BA41 6GT2090-0BE00 (CM connector) | Always use reader-side assembled cables: 10 m = 6GF3 500-8BA21 30 m = 6GF3 500-8BA41 6GT2090-0BE00 (CM connector) |

Power & Control-side Networking Components

| | RF166C | RF120C | ASM 475 | RS232 to PC | RF185C, RF186C/CI, RF188C/CI | RF360R | RF600 | MV420, MV440 | MV500 |
|-------------------------------|--|------------------------------|---|------------------------------|--|--|--|---|--|
| Cable & Connectors | See RF166C Bill of Materials Guide Page 77 | Direct with S7-1200 assembly | Direct in S7-300 rack or in ET 200M rack using IM153-2 Module | See individual readers above | See RF18xC bill of materials guide page 75 | See RF360R bill of materials guide page 78 | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 6GT2090-0BD00 (reader connector) 6GK1907-0DB10-6AA3 (power supply) | 6GT2 090-4AN50 (50 m cable) 6GT2 090-4AT12 (120 m cable) 6GT2 090-4AT80 (800 m cable) 12-pin M16/F (reader connector) ² | Always use reader-side assembled cables (M12, 12pin) and power-side open ends: 10 m = 6GF3 500-8BA21 30 m = 6GF3 500-8BA41 |

Notes:

- Order via distributor for electronic components
- Binder M16 male & female connectors for making custom interface cables. They almost have screw terminals inside of them for wire connections, so they're easy to build in the field. The contact info is:

| | | | |
|---|--|--|--|
| Binder-USA – LP offices and warehouse 3903 Calle Tecate, Camarillo, CA93012 PHONE: (805) 437-9925 EMAIL: mailto:sales@binder-usa.com Web site = http://www.binder-usa.com | Binder Europa Rötélstrasse 27 74172 Neckarsulm PHONE: ++49 (0) 71 32 - 325-0 EMAIL: vk@binder-connector.de Web site: http://www.binder-connector.de | Binder Asia 南京江宁开发区诚信大道88号, 7号楼 PHONE: 025-83328591 EMAIL: mailto:bindernj@binder-connector.cn Web site: http://www.binder-connector.cn | Binder Order example for MV420 M16 cable connector 12-pin, female wire solder: 99 5630 00 12 |
|---|--|--|--|