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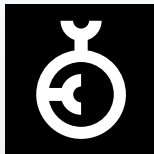
*Ingenuity for life*



IF DESIGN  
AWARD  
2016



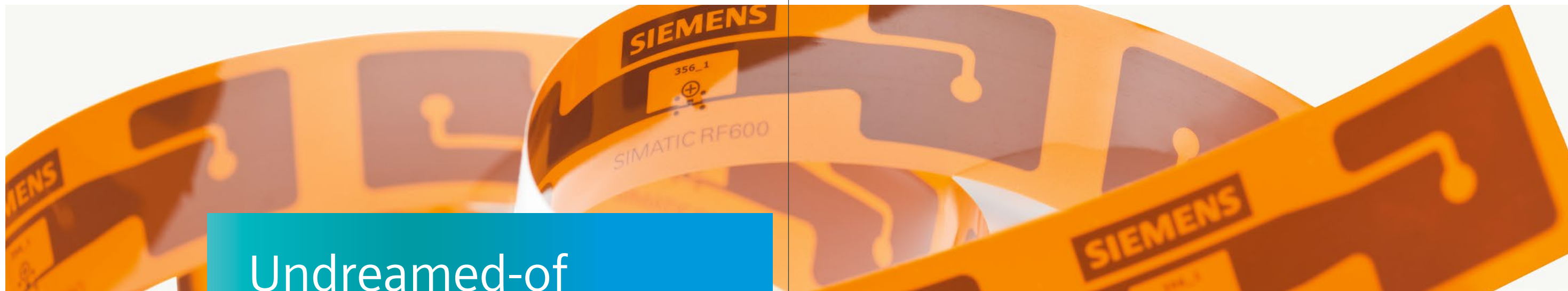
GERMAN  
DESIGN  
AWARD  
SPECIAL 2017



# Transparent Processes

SIMATIC RF600 –  
Taking RFID to the Next Level

[siemens.com/rf600](http://siemens.com/rf600)



# Undreamed-of transparency

New possibilities for production and logistics

To be successful in the future, companies have to invest in solutions for the digital enterprise today – solutions that bring lower costs, higher quality, greater flexibility and efficiency, as well as shorter response times to customer requests and market requirements. UHF-RFID technology is an important part of the digital factory, and SIMATIC RF600 makes it easy for you to take advantage of all its benefits. The system reads transponders with absolute reliability, and it can be integrated seamlessly into your automation (such as in Totally Integrated Automation) and IT environments (such as in cloud solutions). Project planning is carried out using a standard Web browser or the TIA Portal, and can be performed quickly. It is also easy to use, even during factory operation. From production to delivery of the finished products, SIMATIC RF600 opens up new possibilities for you.

Today we manufacture products in global networks with increasingly shorter life-cycles. And we gear our manufacturing processes to increasingly specific customer requests while meeting increasingly strict standards and requirements.

To keep pace with the global competition, companies need a continuous, up-to-the-minute overview of their processes and material flows, because knowing where materials are at all times is crucial for better planning and optimization of production and logistics.

RFID provides this transparency. Stationary read/write devices in the production and supply chain as well as transponders on products, workpieces, and goods allow uninterrupted tracking and tracing.

Modern systems in the ultra-high frequency band (UHF-RFID) offer long ranges, high reading speed, and the option of bulk reading.

As processes within companies and in the outside world become more inter-linked, RFID technology is becoming increasingly important for Industry 4.0. The concept of the digital factory encompasses the entire process from development and simulation, to the physical implementation of a product in a highly automated production sequence. This requires technologies that can identify semi-finished products, tooling, containers and machines, as well as communication technologies to digitally transmit data between machines or factories.

| SIMATIC RF600 RFID system  |   |
|----------------------------|---|
| <b>Read/write distance</b> | Max. 8 m (with 1 antenna), farther with antennas mounted opposite each other in portal applications |
| <b>Frequency</b>           | 865–868 MHz (Europe)<br>902–928 MHz (North America)<br>920–925 MHz (China)<br>920–924 MHz (Japan)   |
| <b>Standards</b>           | EPCglobal Class 1 Gen 2<br>ISO 18000-6B<br>ISO 18000-6C   |

# Versatile applications

Quality and efficiency throughout the value chain

## Production control

Make production stations flexible, control material flows

- Reliable and rugged, even in challenging radio environments
- Economic production, even down to unique-item runs
- Suitable for difficult-to-access assembly stations
- Greater availability thanks to distributed control
- Optimized inventory management
- Greater manufacturing efficiency through automatic, synchronous feeding of parts and components
- Simple material flow control thanks to automation with Kanban

## Tracking and tracing

Track with precision

- Improved product quality
- Focused after-sales support (e.g. product recalls)
- Observation of legal regulations
- Automatic data recording for process optimization

## Asset management

Maintain an overview

- Increased rate of inventory turnover
- Reduction of inventory and less need for replenishment
- Increased availability
- Improved service, maintenance and repair processes
- New business models based on service life

## Supply chain management

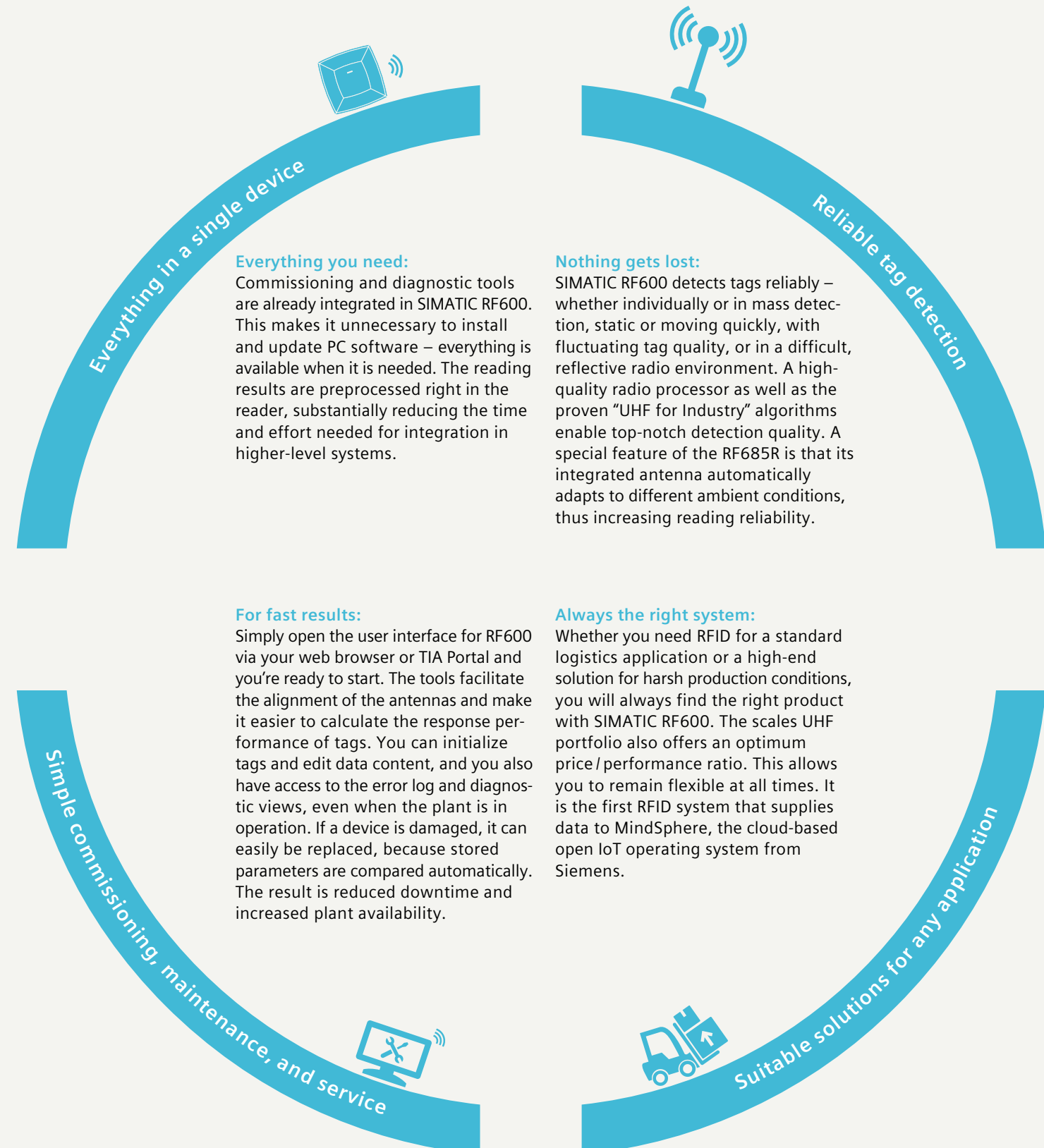
Keep global logistics under control

- Greater transparency in logistics
- Support of new logistics concepts
- Automatic data entry instead of the manual processing of goods, which can frequently incur errors, for example during the receipt and shipping of goods
- Integration in global supplier networks
- Automatic monitoring of cold chains



# SIMATIC RF600

All benefits bundled in a single system





# New in the cloud

## SIMATIC RF600 supplies data to MindSphere

Digitalization is changing everything: Billions of smart devices and machines are generating staggering volumes of data that flow together into virtual clouds to the Internet of Things (IoT). The analysis and utilization of this data are opening up unimagined potential. Siemens has developed MindSphere, the cloud-based open IoT operating system that allows this potential to be fully exploited. MindSphere supports the digital transformation of enterprises of any size and in any sector – in the shortest possible time.

### The future is digital

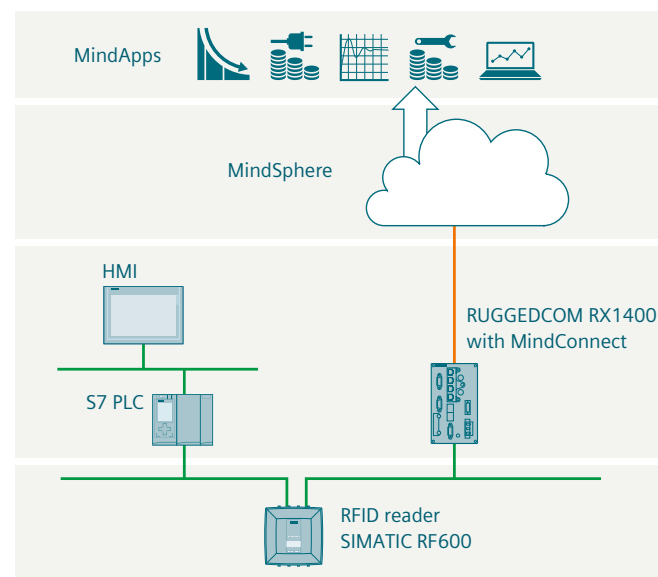
The simple act of connecting the SIMATIC RF600 RFID system to MindSphere via OPC UA opens up exciting new scopes for the use of data captured from RFID transponders. As a link between the real and digital world, the RFID system allows operating resources such as containers, pallets or products that previously could not be mapped digitally to now be registered and tracked. The new firmware version V3 makes this link possible. SIMATIC RF600 uses it to support the

OPC UA interface, which is an important standard on the way towards digitalization. As a platform-independent standard, OPC UA offers high performance and proven security mechanisms. It enables seamless communication and can be scaled to meet any requirement. The data is transmitted to MindSphere via a connect element such as the Industrial IoT gateway RUGGEDCOM RX1400 with MindConnect or MindConnect Nano. Siemens relies on OPC UA as the open interface – from the sensor to the cloud.

The analysis of the data that are provided to MindSphere with the help of SIMATIC RF600 is creating transparency in terms of KPIs such as plant availability, utilization of assets, or energy-saving potential. This will allow the targeted optimization of production processes and supply chains with a view to improving efficiency and quality in production, logistics, asset management, and other areas. In all industries.

### Highlights

- OPC UA enables standardized connection to MindSphere
- Simple connection, for example, via the Industrial IoT gateway RUGGEDCOM RX1400 with MindConnect or MindConnect Nano
- Project engineering via web interface in a browser
- Worldwide availability of KPIs thanks to the web-based concept
- Complete solution from the sensor and the connection to MindSphere to the point of applications and digital services



SIMATIC RF600 and MindSphere are essential components of a successful digitalization strategy and the basis for data-based services from Siemens for predictive maintenance and management of energy data, assets, and supply chain management.



# Technical data at a glance

## Read/write devices



|             | SIMATIC RF650R read/write device  | SIMATIC RF680R read/write device  | SIMATIC RF685R read/write device  |
|-------------|---|---|---|
| Description | Stationary UHF read/write device with integrated processing logic for max. four remote antennas | Stationary UHF read/write device with integrated processing logic for max. four remote antennas | Stationary UHF read/write device with integrated processing logic with an integrated antenna and an external antenna connection |

### Interfaces

|                                 | SIMATIC RF650R      | SIMATIC RF680R     | SIMATIC RF685R     |
|---------------------------------|---------------------|--------------------|--------------------|
| Ethernet                        | 1 x RJ45 (100 Mbps) | 2 x M12 (100 Mbps) | 2 x M12 (100 Mbps) |
| RS422                           |                     | 1                  | 1                  |
| Digital inputs 24 V             | 4                   | 4                  | 4                  |
| Digital outputs 24 V/0.5 A nom. | 4                   | 4                  | 4                  |

### Connection to the automation system

|             | SIMATIC RF650R   | SIMATIC RF680R  | SIMATIC RF685R  |
|-------------|--|---|---|
| SIMATIC     | <ul style="list-style-type: none"> <li>S7-300</li> <li>S7-400</li> <li>S7-1200</li> <li>S7-1500</li> </ul>                   | <ul style="list-style-type: none"> <li>via integrated PROFINET interface</li> <li>PROFIBUS via communications module ASM456</li> </ul>  | <ul style="list-style-type: none"> <li>via integrated PROFINET interface</li> <li>PROFIBUS via communications module ASM456</li> </ul>  |
| Dist. I/O   | <ul style="list-style-type: none"> <li>ET 200pro</li> <li>ET 200M</li> </ul>   |   |   |
| Bus systems | <ul style="list-style-type: none"> <li>PROFINET</li> <li>PROFIBUS</li> <li>Ethernet/IP</li> <li>Ethernet (TCP/IP)</li> </ul> | <ul style="list-style-type: none"> <li>PROFINET: integrated</li> <li>PROFIBUS via communications module ASM456</li> <li>Ethernet/IP: integrated</li> <li>Ethernet (TCP/IP, OPC UA): integrated</li> </ul> | <ul style="list-style-type: none"> <li>PROFINET: integrated</li> <li>PROFIBUS via communications module ASM456</li> <li>Ethernet/IP: integrated</li> <li>Ethernet (TCP/IP, OPC UA): integrated</li> </ul> |

### Other properties

|                                     | SIMATIC RF650R                           | SIMATIC RF680R                           | SIMATIC RF685R                             |
|-------------------------------------|--|--|--|
| Capable of multi-tag/mass detection | yes                                      | yes                                      | yes  |
| Range, max.                         | 8 m                                      | 8 m                                      | 8 m  |
| Data transmission rate, max.        | 300 kbps                                 | 300 kbps                                 | 300 kbps                                   |
| Antenna                             | max. 4 external antennas                 | max. 4 external antennas                 | 1 internal antenna max. 1 external antenna |
| Operating temperature               | -25 °C to +55 °C                         | -25 °C to +55 °C                         | -25 °C to +55 °C                           |
| Degree of protection                | IP30                                     | IP65                                     | IP65                                       |
| Approvals                           | CE, ETSI EN 302208, UL, FCC, CMIIT, ARIB | CE, ETSI EN 302208, UL, FCC, CMIIT, ARIB | CE, ETSI EN 302208, UL, FCC, CMIIT, ARIB   |
| Dimensions in mm (L x W x H)        | 258 x 258 x 80                           | 258 x 258 x 80                           | 258 x 258 x 80                             |

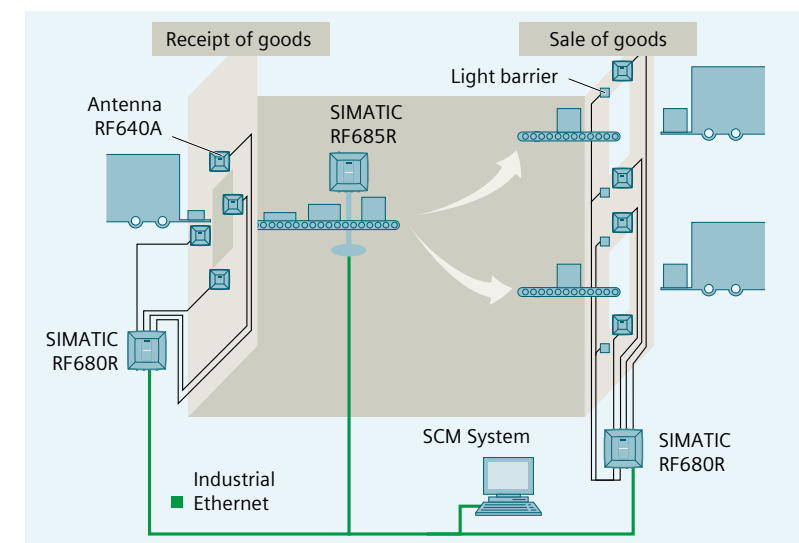
# Technical data at a glance

## Antennas

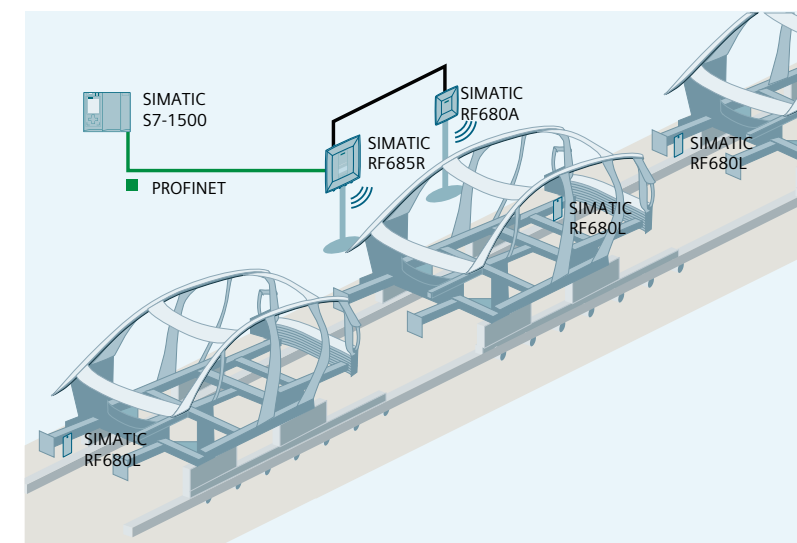


|                                 | SIMATIC RF620A antenna   | SIMATIC RF642A antenna  |
|---------------------------------|--|---|
| Description                     | Compact antenna for use in production facilities and conveyor technology | Universal medium-range UHF antenna in industrial-suited, compact design                                 |
| Impedance (nominal)             | 50 ohms  | 50 ohms   |
| Polarization                    | Linear   | Linear  |
| Antenna gain                    | -10 dBi to -5 dBi  | 6 dBi (ETSI)<br>7 dBi (FCC, CMIIT)  |
| Frequency range                 | 865 to 868 MHz (ETSI)<br>902 to 928 MHz (FCC, CMIIT)                     | 865 to 928 MHz (ETSI, FCC, CMIIT)   |
| Conformity                      | CE, FCC, IC-FCB, UL  | CE, FCC, IC-FCB, UL   |
| Connector                       | Reverse-polarity TNC   | Reverse-polarity TNC  |
| Mounting                        | 2 x M5 drilled hole  | 4 x M4 drilled hole (VESA 100 mounting system)<br>optional: flexible mounting with antenna mounting kit |
| Operating temperature           | -20 °C to +70 °C   | -25 °C to +75 °C  |
| IP rating, degree of protection | IP67   | IP65  |
| Dimensions (L x H x D in mm)    | 75 x 75 x 20   | 185 x 185 x 45  |

Monitoring of incoming goods, distribution of goods and outgoing goods (Supply Chain Management)



|                                 | SIMATIC RF650A antenna  | SIMATIC RF660A antenna  | SIMATIC RF680A antenna  |                                 |
|---------------------------------|---|---|---|---------------------------------|
| Description                     | Circular antenna for universal deployment in industrial applications in production and logistics          | Universal antenna for general applications in production and logistics                                  | Adaptive high-end antenna for use in harsh industrial environments. Polarization can be switched over automatically | Description                     |
| Impedance (nominal)             | 50 ohms   | 50 ohms   | 50 ohms   | Impedance (nominal)             |
| Polarization                    | Circular  | Circular  | Linear, circular, automatic   | Polarization                    |
| Antenna gain                    | 4 dBi (ETSI)<br>3.5 dBi (FCC, CMIIT)  | 7 dBi (ETSI)<br>6 dBi (FCC, CMIIT)  | 3.5 dBi (ETSI)<br>3.5 dBi (FCC, CMIIT)  | Antenna gain                    |
| Frequency range                 | 865 to 928 MHz (ETSI, FCC, CMIIT)   | 865 to 868 MHz (ETSI)<br>902 to 928 MHz (FCC, CMIIT)  | 865 to 928 MHz (ETSI, FCC, CMIIT)   | Frequency range                 |
| Conformity                      | CE, FCC, IC-FCB, UL   | CE, FCC, IC-FCB, UL   | CE, FCC, IC-FCB, UL   | Conformity                      |
| Connector                       | Reverse-polarity TNC  | Reverse-polarity TNC  | Reverse-polarity TNC  | Connector                       |
| Mounting                        | 4 x M4 drilled hole (VESA 100 fixing system)<br>optional: flexible installation with antenna mounting kit | 4 x M4 drilled hole (VESA 100 mounting system)<br>optional: flexible mounting with antenna mounting kit | 4 x M4 drilled hole (VESA 100 fixing system)<br>optional: flexible installation with antenna mounting kit           | Mounting                        |
| Operating temperature           | -25 °C to +75 °C  | -25 °C to +75 °C  | -25 °C to +75 °C  | Operating temperature           |
| IP rating, degree of protection | IP65  | IP67  | IP65  | IP rating, degree of protection |
| Dimensions (L x H x D in mm)    | 198 x 198 x 60  | 313 x 313 x 80  | 198 x 198 x 60  | Dimensions (L x H x D in mm)    |



Consistent, end-to-end identification of car bodies, from the shell construction to the final assembly

# Technical data at a glance

## Labels <sup>1)</sup>



|                           | SIMATIC RF622L Smart Label  | SIMATIC RF630L Smart Label  | SIMATIC RF640L Smart Label  | SIMATIC RF690L Smart Label  |
|---------------------------|---|---|---|---|
| Description               | UHF smart label with fast FRAM user memory for logistic applications, for example, for permanent identification of products | UHF smart label for attaching to paper, cardboard, plastic, or film packaging             | UHF smart label for direct mounting to metal surfaces                                 | UHF smart label for direct mounting on metal surfaces   |
| Memory size               | EPC 496 bits<br>User memory: 3424 bytes   | EPC 96/128/240 bits<br>User memory: 512 bits  | EPC 96 to 480 bits <sup>2)</sup><br>User memory: 16 to 64 bytes <sup>2)</sup>         | EPC 96 to 480 bits <sup>2)</sup><br>User memory: 16 to 64 bytes <sup>2)</sup>                                       |
| Standard                  | ISO 18000-6C  | ISO 18000-6C  | ISO 18000-6C  | ISO 18000-6C  |
| Frequency                 | 860 to 960 MHz (ETSI, FCC, CMIIT)   | 860 to 960 MHz (ETSI, FCC, CMIIT)   | 865 to 868 MHz (ETSI)<br>902 to 928 MHz (FCC, CMIIT)                                  | 865 to 868 MHz (ETSI)<br>902 to 928 MHz (FCC, CMIIT)  |
| Data retention            | 10 years  | 10 years  | 10 years  | 10 years  |
| Write/read distance, typ. | Write up to 3 m on nonmetallic subsurface<br>Read up to 3 m on nonmetallic subsurface                                       | Write up to 5 m<br>Read up to 8 m   | Write up to 0.5 m<br>Read up to 3.5 m on metal, up to 2.3 m on nonmetallic subsurface | Write up to 1.5 m<br>Read up to 2.4 m on metal, up to 4.5 m on nonmetallic subsurface                               |
| Read cycles               | min. 10 <sup>10</sup>   | Unlimited   | Unlimited   | Unlimited   |
| Write cycles              | min. 10 <sup>10</sup>   | min. 100,000  | min. 500  | min. 100,000  |
| Dimensions in mm          | 90 x 18 x 0.5 mm  | 105 x 25 mm<br>4" x 6"<br>97 x 27 mm<br>74 x 27 mm<br>4" x 2"<br>54 x 34 mm<br>45 x 20 mm | 50 x 22.5 x 1.6 mm  | 88 x 25 x 1.6 mm (ETSI)<br>77 x 25 x 1.6 mm (FCC, CMIIT)  |
| Operating temperature     | -20 °C to +85 °C  | -40 °C/-25 °C to +65 °C/+85 °C  | -20 °C to +85 °C  | -20 °C to +85 °C (permanent), +160 °C for three cycles of 30 minutes each, higher temperatures available on request |
| Material                  | PET plastic   | Paper / PET plastic   | Plastic, top surface PET  | Plastic, top surface PEN  |
| Degree of protection      | IP64 (bonded)   | IP65 (when affixed)   | IP67  | IP67  |
| Labeling                  | Printable by thermal transfer   | Printable by thermal transfer, depending on design  | Printable by thermal transfer   | Printable by thermal transfer   |

<sup>1)</sup> Customer-specific labels and transponders available on request.  
<sup>2)</sup> The EPC memory has a standard size of 96 bits. If required, the EPC memory size can be increased in 16-bit increments up to 480 bits, at the expense of the user memory.

# Technical data at a glance

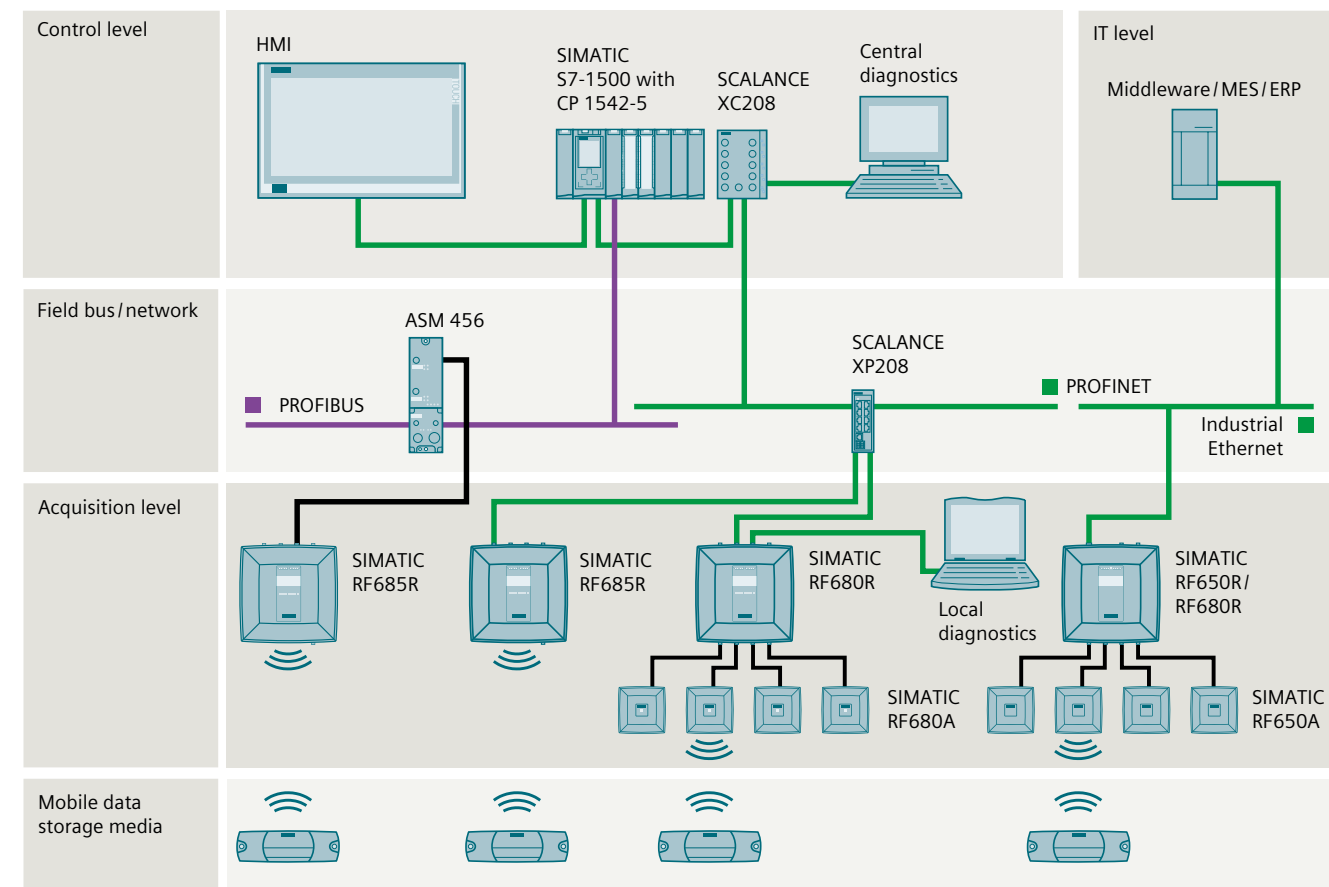
## Mobile transponders <sup>1)</sup>



|                           | SIMATIC RF610T transponder                                      | SIMATIC RF620T transponder   | SIMATIC RF622T transponder   | SIMATIC RF625T transponder                           | SIMATIC RF630T transponder                           | SIMATIC RF640T transponder                                     | SIMATIC RF680T transponder  | Description               |
|---------------------------|---|--|--|--|--|--|---|---------------------------|
| Description               | UHF transponder for simple identification, screw-on or adhesive | UHF transponder for industry and logistics, mountable on conductive materials with spacer        | UHF transponder with fast FRAM user memory to use, for example, in the fields of production control, asset management and intralogistics | Compact UHF transponder for mounting in and on metal | UHF screw transponder (M6), for mounting on metal    | UHF tool transponder for mounting on metal                     | UHF high-temperature transponder, for mounting on metal, robust and heat-proof (up to 220 °C) with long range for harsh industrial environments | Description               |
| Memory size               | EPC 96/240 bits<br>User memory: 512 bits                        | EPC 96/128 bits<br>User memory: 512 bits   | EPC 496 bits<br>User memory: 3424 bytes  | EPC 96/128 bits<br>User memory: 512 bits             | EPC 96/240 bits<br>User memory: 512 bits             | EPC 96/240 bits<br>User memory: 512 bits                       | EPC 96/240 bits<br>User memory: 512 bits  | Memory size               |
| Standard                  | ISO 18000-6C  | ISO 18000-6C   | ISO 18000-6C   | ISO 18000-6C   | ISO 18000-6C   | ISO 18000-6C   | ISO 18000-6C  | Standard                  |
| Frequency                 | 860 to 960 MHz (ETSI, FCC, CMIIT)                               | 860 to 960 MHz (ETSI, FCC, CMIIT)  | 860 to 960 MHz (ETSI, FCC, CMIIT)  | 865 to 868 MHz (ETSI)<br>902 to 928 MHz (FCC, CMIIT) | 865 to 868 MHz (ETSI)<br>902 to 928 MHz (FCC, CMIIT) | 865 to 868 MHz (ETSI)<br>902 to 928 MHz (FCC, CMIIT)           | 865 to 928 MHz (ETSI, FCC, CMIIT)   | Frequency                 |
| Data retention            | 10 years  | 10 years   | 10 years   | 10 years   | 30 years   | 30 years   | 30 years  | Data retention            |
| Write/read distance, typ. | Write: 3 m<br>Read: 5 m   | Write: 6 m<br>Write: 4 m (on metal with spacer)<br>Read: 8 m<br>Read: 6 m (on metal with spacer) | Write: 3 m<br>Write: 1 m (on metal with spacer)<br>Read: 3 m<br>Read: 1 m (on metal with spacer)   | Write: 1.2 m (on metal)<br>Read: 1.5 m (on metal)    | Write: 1.2 m (on metal)<br>Read: 1.5 m (on metal)    | Write: 2.5 m (on metal)<br>Read: 4 m<br>Read: 2.5 m (on metal) | Write: 4 m (on metal)<br>Read: 6 m (on metal)   | Write/read distance, typ. |
| Read cycles               | Unlimited   | Unlimited  | min. 10 <sup>10</sup>  | Unlimited  | Unlimited  | Unlimited  | Unlimited   | Read cycles               |
| Write cycles              | min. 100,000  | min. 100,000   | min. 10 <sup>10</sup>  | min. 100,000   | min. 100,000   | min. 100,000   | min. 100,000  | Write cycles              |
| Dimensions in mm          | 86 x 54 x 0.4 (L x H x D)                                       | Transponder: 127 x 38 x 6 (L x H x D)<br>Spacer: 155 x 38 x 12 (L x H x D)                       | 120 x 30 x 6.5 (L x H x D)   | 30 x 8 (Ø x H)                                       | 21 x 20 mm (Ø x H),<br>Wrench size 19                | 50 x 8 mm (Ø x H)  | 130 x 32 x 15 mm (L x H x D)  | Dimensions in mm          |
| Operating temperature     | -25 °C to +85 °C  | -25 °C to +85 °C   | -20 °C to +85 °C   | -25 °C to +85 °C                                     | -25 °C to +85 °C                                     | -25 °C to +85 °C   | -25 °C to +100 °C (permanent)<br>+200 °C up to 5,000 hours<br>or 3,000 cycles tested<br>+220 °C up to 2,000 hours<br>or 1,500 cycles tested     | Operating temperature     |
| Material                  | PVC plastic   | PP plastic housing (food grade)  | Plastic housing (PA12)   | Plastic housing (PA6.6)                              | Plastic/stainless steel                              | PA12 plastic, anthracite                                       | PPS plastic   | Material                  |
| Degree of protection      | IP67  | IP67   | IP67   | IP68/IPx9K   | IP68/IPx9K   | IP68/IPx9K/Ex ibD T1 1140 °C                                   | IP68/IPx9K  | Degree of protection      |
| Labeling                  | Printable   | Laser printing   | Laser printing   | no   | no   | no   | no  | Labeling                  |

# Seamless integration

Standard interfaces for flexible architectures



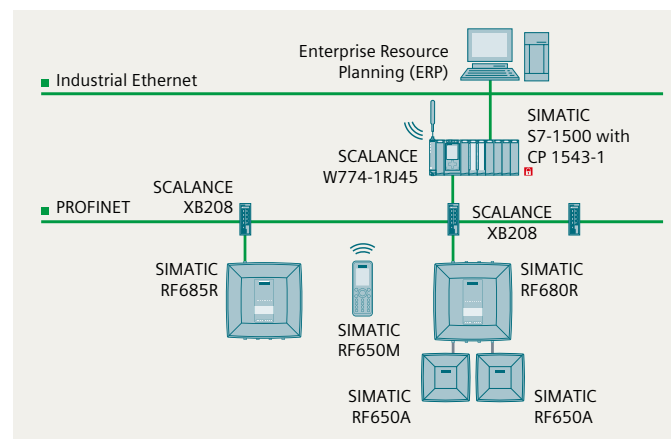
Whether for automation or IT, the RF600 system can be seamlessly integrated into your existing environment.

# Technical data at a glance

## Mobile handheld terminal



| Mobile handheld terminal<br>SIMATIC RF650M |   |
|--|---|
| Description                                | Powerful, compact, mobile RFID reader for applications in production logistics, warehouse management, inventory and service |
| Display                                    | TFT colour touch screen   |
| Size                                       | 2.2" screen size  |
| Resolution<br>(W × H in pixels)            | 240 × 320   |
| Operating temperature                      | −20 °C to +55 °C  |
| Degree of protection                       | IP54  |
| Power supply                               | Lithium-polymer battery (2260 mAh)  |
| <b>Operating elements</b>                  |   |
| Display                                    | Function keys and touch screen  |
| Keyboard                                   | Alphanumeric  |
| <b>Storage</b>                             |   |
| Flash/RAM                                  | 256 MB/256 MB   |
| <b>RFID reader</b>                         |   |
| Frequency                                  | 865 to 868 MHz (Europe) per ETSI<br>902 to 928 MHz (USA) per FCC  |
| Write-read distance                        | typ. 2.5 m  |
| Capable of multi-tag/mass detection        | yes   |
| <b>Interfaces</b>                          |   |
| Wireless                                   | WLAN integrated (IEEE 802.11 a/b/g/n)   |
| USB, Ethernet                              | via docking station   |



Exemplary configuration  
for an assembly line with  
SIMATIC RF600, SCALANCE W  
and SCALANCE X

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In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions only form one element of such a concept.

Customer is responsible to prevent unauthorized access to its plants, systems, machines and networks. Systems, machines and components should only be connected to the enterprise network or the internet if and to the extent necessary and with appropriate security measures (e.g. use of firewalls and network segmentation) in place.

Additionally, Siemens' guidance on appropriate security measures should be taken into account. For more information about industrial security, please visit <http://www.siemens.com/industrialsecurity>.

Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends to apply product updates as soon as available and to always use the latest product versions. Use of product versions that are no longer supported, and failure to apply latest updates may increase customer's exposure to cyber threats.

To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under <http://www.siemens.com/industrialsecurity>.

### Find out more

[siemens.com/rf600](http://siemens.com/rf600)

### Further information:

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