

### Product type designation

### Reader RF650R FCC

SIMATIC RF600 Reader RF650R FCC; Interfaces Ethernet RJ45, 4 antennas, 4 dig. inputs/ 4 dig. outputs, 24V DC; IP30; -25 to +55 °C; without accessories and antennas



### Suitability for operation

RF600 transponder, for connecting via Ethernet, OPC UA server integrated

### Wireless frequencies

|   |   |
|---|---|
| Operating frequency   | 902 ... 928 MHz   |
| Transmit power  | 3 ... 1000 mW   |
| Equivalent isotropically radiated power <ul style="list-style-type: none"> <li>• for each external antenna / maximum</li> </ul> | 4000 mW   |
| Range / maximum   | 8 m; Extended ranges possible, see RF600 System Manual, Range table:<br><a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a> |
| Protocol / with radio transmission  | EPCglobal Class 1 Gen 2 / ISO/IEC 18000-62/-63  |
| Transfer rate / with radio transmission / maximum   | 400 kbit/s  |
| Product feature / multitag-capable  | Yes   |

### Electrical data

|   |                 |
|---|-----------------|
| Transmission time / for user data <ul style="list-style-type: none"> <li>• for write access / per byte / typical</li> <li>• for read access / per byte / typical</li> </ul> | 2 ms<br>0.15 ms |
|---|-----------------|

### Interfaces

|  |  |
|--|--|
| Number of external antennas  | 4  |
| Type of electrical connection  |  |
| <ul style="list-style-type: none"> <li>• for external antenna(s)</li> <li>• for supply voltage</li> <li>• for communications interface</li> <li>• at the digital inputs/outputs</li> </ul> | RP-TNC<br>M12, 8-pin, connector<br>RJ45<br>M12, 12-pin, female connector |
| Number of digital inputs   | 4  |
| Number of digital outputs  | 4  |

#### Mechanical data

|  |                 |
|--|-----------------|
| Material   | Aluminum, Pocan |
| Color  | silver, TI-Grey |
| Mounting distance / relating to metal surfaces / recommended / minimum | 0 mm            |

#### Supply voltage, current consumption, power loss

|  |                     |
|--|---------------------|
| Supply voltage   |                     |
| <ul style="list-style-type: none"> <li>• at DC / Rated value</li> <li>• at DC</li> </ul> | 24 V<br>20 ... 30 V |
| Consumed current / at DC / at 24 V   |                     |
| <ul style="list-style-type: none"> <li>• typical</li> <li>• maximum</li> </ul>           | 0.37 A<br>2 A       |

#### Permitted ambient conditions

|  |  |
|--|--|
| Ambient temperature  |  |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> <li>• during transport</li> </ul> | -25 ... +55 °C<br>-40 ... +85 °C<br>-40 ... +85 °C   |
| Ambient condition / for operation  | With operating temperature below -20 °C: Warming-up time at least 10 minutes                                 |
| Protection class IP  | IP30   |
| Shock resistance   | EN 60068-2-27, EN 60068-2-6  |
| Shock acceleration   | 500 m/s <sup>2</sup>   |
| Vibrational acceleration   | 200 m/s <sup>2</sup>   |
| Resistance to mechanical stress  | The maximum stress of shock and vibration acceleration is guaranteed only in combination with the VESA mount |

#### Design, dimensions and weight

|  |  |
|--|--|
| Width  | 258 mm   |
| Height   | 258 mm   |
| Depth  | 80 mm  |
| Net weight   | 2.4 kg   |
| Mounting type  | Vesa 100 with 4 x M4 screws, top-hat rail 35 mm, profile rail S7-300, S7-1200 or S7-1500 |
| Wire length  |  |
| <ul style="list-style-type: none"> <li>• of antenna cable / minimum</li> </ul> | 1 m  |

- of antenna cable / maximum

40 m

#### Product properties, functions, components / general

|                                |                     |
|--------------------------------|---------------------|
| Display version                | LED row with 6 LEDs |
| Product feature / silicon-free | Yes                 |

#### Standards, specifications, approvals

|                            |   |
|----------------------------|---|
| Certificate of suitability | Wireless according to FCC, IC (Canada), cULus |
| MTBF                       | 31 y  |

#### Accessories

|             |   |
|-------------|---|
| accessories | up to 4 external antennas, set for mounting on top-hat rail or profile rail |
|-------------|---|

#### Further Information / Internet Links

##### Internet-Link

- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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

<http://www.siemens.com/ident/rfid>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

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

<https://support.industry.siemens.com>

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