

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

Radio frequencies

Operating frequency	902 ... 928 MHz
Transmit power	3 ... 1000 mW
Equivalent isotropically radiated power <ul style="list-style-type: none"> • for each external antenna / maximum 	4000 mW
Range / maximum	8 m; Extended ranges possible, see RF600 System Manual, Range table: http://support.automation.siemens.com/WW/view/en/67384964
Protocol / with radio transmission	EPCglobal Class 1 Gen 2 V2 / 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"> • for write access / per byte / typical • for read access / per byte / typical 	2 ms 0.15 ms
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Interfaces

Number of external antennas	4
Standard for interfaces / for communication	Ethernet, OPC UA
Type of electrical connection	
<ul style="list-style-type: none"> • for external antenna(s) • for supply voltage • for communications interface • at the digital inputs/outputs 	RP-TNC M12, 8-pin, connector RJ45 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"> • at DC / Rated value • at DC 	24 V 20 ... 30 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical • maximum 	0.37 A 2 A

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	-25 ... +55 °C -40 ... +85 °C -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 ²
Vibrational acceleration	200 m/s ²
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	

- of antenna cable / minimum 1 m
- of antenna cable / maximum 40 m

Product features, product functions, product components / general

Display version	LED row with 6 LEDs
Protocol / is supported / Media Redundancy Protocol (MRP)	No
Product function / of the PROFINET IO device / is supported / H-Sync forwarding	No
Protocol / is supported	
• LLDP	Yes
• PROFINET IO protocol	No
• TCP/IP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v3	No
• DCP	Yes
• EtherNet/IP protocol	No
Product feature / silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	
• IECEx	No
MTBF	31 y

accessories

accessories	up to 4 external antennas, set for mounting on top-hat rail or profile rail
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Further information / Internet-Links

Internet-Link	
• to website: Selector SIMATIC NET SELECTION TOOL	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAx Download Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
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