

product type designation



Reader RF650R FCC

SIMATIC RF600 Reader RF650R FCC; Interfaces Ethernet RJ45, 4 antennas, 4 dig. inputs/ 4 dig. outputs, 24 V 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, Poca
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 <ul style="list-style-type: none"> • at 24 V / typical • at 24 V / maximum 	0.37 A 2 A

ambient conditions

ambient temperature	
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<ul style="list-style-type: none"> during operation during storage during transport 	<p>-25 ... +55 °C</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
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	250 m/s ²
vibrational acceleration	30 m/s ²
resistance to mechanical stress	The maximum values for shock and vibration acceleration must not occur as continuous stress and they apply exclusively to assembly using screws

design, dimensions and weights

width	258 mm
height	258 mm
depth	80 mm
net weight	2.4 kg
fastening method	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"> of antenna cable / minimum of antenna cable / maximum 	<p>1 m</p> <p>40 m</p>

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 <ul style="list-style-type: none"> LLDP PROFINET IO protocol TCP/IP SNMP v1 SNMP v2 SNMP v3 DCP EtherNet/IP protocol OPC UA 	<p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>Yes</p> <p>No</p> <p>Yes</p>
product feature / silicon-free	Yes

standards, specifications, approvals

certificate of suitability	wireless according to FCC, IC (Canada), cULus, OPC UA: embedded UA Server Profile
certificate of suitability <ul style="list-style-type: none"> IECEX 	No
MTBF	31 a

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 <ul style="list-style-type: none"> to web page: selection aid TIA 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 	<p>https://support.industry.siemens.com/cs/ww/en/view/67384964</p> <p>http://www.siemens.com/ident/rfid</p> <p>https://mall.industry.siemens.com</p> <p>http://www.siemens.com/industry/infocenter</p> <p>http://automation.siemens.com/bilddb</p> <p>http://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
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