

product type designation



Reader RF615R FCC

SIMATIC RF600 Reader RF615R FCC; interfaces: 1 Ethernet / PROFINET M12; 1 integrated antenna + 1 ext. antenna port; 1 dig. input, 1 dig. output; 24 V DC; IP67; -25 to +55 °C without accessories.

suitability for operation

RF600 Transponder, for direct connection to Ethernet, PROFINET, EtherNet/IP or PROFIBUS via communication module, OPC UA server integrated

radio frequencies

operating frequency	902 ... 928 MHz
transmit power	3 ... 400 mW
equivalent isotropically radiated power	
• for each external antenna / maximum	1800 mW
• minimum	10 mW
• maximum	400 mW
range / maximum	4 m; With the internal antenna 1.6 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
polarization	circular

electrical data

transmission time / for user data	
• for write access / per byte / typical	2 ms
• for read access / per byte / typical	0.15 ms

interfaces

number of external antennas	1
standard for interfaces / for communication	Ethernet, PROFINET, OPC UA, EtherNet/IP, RS422
type of electrical connection	
• for external antenna(s)	RP-TNC
• for supply voltage	M12, 8-pin, connector
• for communications interface	M12, 4-pin, d-coded
• at the digital inputs/outputs	M12, 5-pin, female connector
number of digital inputs	1
number of digital outputs	1

mechanical data

material	Pocan
color	silver, TI-Grey
mounting distance / relating to metal surfaces / recommended / minimum	0 mm

supply voltage, current consumption, power loss

supply voltage	
• at DC / rated value	24 V
• at DC	20 ... 30 V
consumed current / at DC	

• at 24 V / typical • at 24 V / maximum	0.2 A 0.22 A
ambient conditions	
ambient temperature	
• 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	IP67
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	133 mm
height	133 mm
depth	45 mm
net weight	0.37 kg
fastening method	Vesa 100 with 4 x M4 screws
wire length	
• of antenna cable / minimum • of antenna cable / maximum	1 m 40 m
product features, product functions, product components / general	
display version	LED bars with 6 LED and 1 circulating LED
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function / of the PROFINET IO device / is supported / H-Sync forwarding	No
protocol / is supported	
• LLDP • PROFINET IO protocol • TCP/IP • SNMP v1 • SNMP v2 • SNMP v3 • DCP • EtherNet/IP protocol • OPC UA	Yes Yes Yes Yes No No Yes Yes Yes
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	
• IECEx	No
MTBF	29 a
accessories	
accessories	One external antenna
further information / internet links	
internet link	
• 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	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
last modified:	8/18/2023 