

Product type designation

Reader RF615R CMIIT

SIMATIC RF600 Reader RF615R CMIIT; 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 accessory



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	920 ... 925 MHz
Transmit power	3 ... 400 mW
Effective radiant power	
<ul style="list-style-type: none"> • for each external antenna / maximum 	1100 mW
<ul style="list-style-type: none"> • minimum 	10 mW
<ul style="list-style-type: none"> • maximum 	200 mW
Range / maximum	4 m
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	
<ul style="list-style-type: none"> • for write access / per byte / typical 	2 ms

- for read access / per byte / typical

0.15 ms

Interfaces

Number of external antennas	1
Type of electrical connection	
<ul style="list-style-type: none"> • for external antenna(s) 	RP-TNC
<ul style="list-style-type: none"> • for supply voltage 	M12, 8-pin, connector
<ul style="list-style-type: none"> • for communications interface 	M12, 4-pin, d-coded
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • at DC / Rated value 	24 V
<ul style="list-style-type: none"> • at DC 	20 ... 30 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical 	0.2 A
<ul style="list-style-type: none"> • maximum 	0.22 A

Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-25 ... +55 °C
<ul style="list-style-type: none"> • during storage 	-40 ... +85 °C
<ul style="list-style-type: none"> • during transport 	-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	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 weights

Width	133 mm
Height	133 mm
Depth	45 mm
Net weight	0.37 kg
Mounting type	Vesa 100 with 4 x M4 screws

Wire length	
<ul style="list-style-type: none"> • of antenna cable / minimum 	1 m
<ul style="list-style-type: none"> • of antenna cable / maximum 	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	
<ul style="list-style-type: none"> • LLDP 	Yes
<ul style="list-style-type: none"> • PROFINET IO protocol 	Yes
<ul style="list-style-type: none"> • TCP/IP 	Yes
<ul style="list-style-type: none"> • SNMP v1 	Yes
<ul style="list-style-type: none"> • SNMP v2 	No
<ul style="list-style-type: none"> • SNMP v3 	No
<ul style="list-style-type: none"> • DCP 	Yes
<ul style="list-style-type: none"> • EtherNet/IP protocol 	Yes
<ul style="list-style-type: none"> • OPC UA 	Yes
Product feature / silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No
MTBF	29 y

accessories

accessories	One external antenna
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Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> • to website: Selector SIMATIC NET SELECTION TOOL 	https://support.industry.siemens.com/cs/ww/en/view/67384964
<ul style="list-style-type: none"> • to website: Industrial communication 	http://www.siemens.com/ident/rfid
<ul style="list-style-type: none"> • to website: Industry Mall 	https://mall.industry.siemens.com
<ul style="list-style-type: none"> • to website: Information and Download Center 	http://www.siemens.com/industry/infocenter
<ul style="list-style-type: none"> • to website: Image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • to website: CAx Download Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • to website: Industry Online Support 	https://support.industry.siemens.com

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