

Product type designation

Reader RF610R ETSI

SIMATIC RF600 Reader RF610R ETSI; Interfaces: 1 Ethernet / PROFINET M12; 1 integrated antenna; 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	865 ... 868 MHz
Effective radiant power	<ul style="list-style-type: none"> • minimum 10 mW • maximum 200 mW
Range / maximum	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	
<ul style="list-style-type: none"> • for write access / per byte / typical 	2 ms

- for read access / per byte / typical

0.15 ms

Interfaces

Standard for interfaces / for communication	Ethernet, PROFINET, OPC UA, EtherNet/IP, RS422
Type of electrical connection	
<ul style="list-style-type: none"> • for supply voltage • for communications interface 	<p>M12, 8-pin, connector</p> <p>M12, 4-pin, d-coded</p>

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 • at DC 	<p>24 V</p> <p>20 ... 30 V</p>
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> • typical • maximum 	<p>0.2 A</p> <p>0.22 A</p>

Ambient conditions

Ambient temperature	
<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	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	0.3 kg
Mounting type	Vesa 100 with 4 x M4 screws
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 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 • PROFINET IO protocol • TCP/IP • SNMP v1 • SNMP v2 • SNMP v3 • DCP • EtherNet/IP protocol • OPC UA 	<ul style="list-style-type: none"> Yes Yes Yes Yes No No Yes Yes Yes
Product feature / silicon-free	Yes

Standards, specifications, approvals

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

Further information / Internet-Links

Internet-Link	
<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> 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: 05/12/2020