

Product type designation

Reader RF610R CMIIT

SIMATIC RF600 Reader RF610R CMIIT; 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	920 ... 925 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

Type of electrical connection

- for supply voltage
- for communications interface

M12, 8-pin, connector

M12, 4-pin, d-coded

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
- at DC

24 V

20 ... 30 V

Consumed current / at DC / at 24 V

- typical
- 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

500 m/s²

Vibrational acceleration

200 m/s²

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

- 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	Yes
• PROFINET IO protocol	Yes
• TCP/IP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v3	No
• DCP	Yes
• EtherNet/IP protocol	Yes
• OPC UA	Yes
Product feature / silicon-free	Yes

Standards, specifications, approvals

Certificate of suitability	
• IECEx	No
MTBF	29 y

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

last modified: 05/12/2020