

### product type designation



### Reader RF610R FCC

SIMATIC RF600 Reader RF610R FCC; interfaces: 1 Ethernet / PROFINET M12; 1 integrated antenna; 24 V DC; IP67; -25 to +55 °C without accessories.

Technical Product Detail Page

<https://l.siemens.com/1P6GT2811-6BC10-1AA0>

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
equivalent isotropically radiated power	
• minimum	10 mW
• maximum	400 mW
range / maximum	1.6 m; Extended ranges possible, see RF600 System Manual, Range table: <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
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

standard for interfaces / for communication	Ethernet, PROFINET, OPC UA, EtherNet/IP, RS422
type of electrical connection	
• for supply voltage	M12, 8-pin, connector
• for communications interface	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	24 V
•	20 ... 30 V
consumed current / at DC	
• at 24 V / typical	0.2 A
• at 24 V / maximum	0.22 A

### ambient conditions

ambient temperature	
• during operation	-25 ... +55 °C
• during storage	-40 ... +85 °C

• 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	250 m/s <sup>2</sup>
vibrational acceleration	30 m/s <sup>2</sup>
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
<b>design, dimensions and weights</b>	
width	133 mm
height	133 mm
depth	45 mm
net weight	0.3 kg
fastening method	Vesa 100 with 4 x M4 screws
wire length	
• of antenna cable / minimum	1 m
• of antenna cable / maximum	40 m
<b>product features, product functions, product components / general</b>	
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	Yes
• DCP	Yes
• EtherNet/IP protocol	Yes
• OPC UA	Yes
product feature / silicon-free	Yes
<b>product functions / management, configuration, engineering</b>	
type of parameterization	HSP, GSDML, EDS, TO, WBM
type of programming	Ident profile, library with functions, OPC UA, XML
type of computer-switched communication	acyclic communication, TCP/IP
<b>standards, specifications, approvals</b>	
certificate of suitability	wireless according to FCC, IC (Canada), cULus, OPC UA: embedded UA Server Profile
certificate of suitability	
• IECEx	No
MTBF	29 a
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO <sub>2</sub> eq]	
• total	204.34 kg
• during manufacturing	71.5 kg
• during operation	131.97 kg
• after end of life	0.87 kg
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: RFID country approval	<a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a>
• to web page: identification and localization systems	<a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>

- to website: CAx-Download-Manager
- to website: Industry Online Support

<https://www.siemens.com/cax>

<https://support.industry.siemens.com>

**security information**

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**Approvals / Certificates**

General Product Approval

EMV



[China RoHS](#)



[Declaration of Con-  
formity](#)



[Declaration of Con-  
formity](#)

EMV

Radio Equipment Type Approval Certificate

Environment

Industrial Commu-  
nication

[KC](#)

[Industry Canada \(IC\)](#)

[Miscellaneous](#)

[FCC](#)



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