

### 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 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	865 ... 868 MHz
effective radiated power	
• minimum	10 mW
• maximum	200 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
• at DC	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

<ul style="list-style-type: none"> <li>during transport</li> </ul>	-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 <sup>2</sup>
vibrational acceleration	200 m/s <sup>2</sup>
resistance to mechanical stress	The maximum stress of shock and vibration acceleration is guaranteed only in combination with the VESA mount
<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	
<ul style="list-style-type: none"> <li>of antenna wire / minimum</li> </ul>	1 m
<ul style="list-style-type: none"> <li>of antenna wire / maximum</li> </ul>	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	
<ul style="list-style-type: none"> <li>LLDP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>PROFINET IO protocol</li> </ul>	Yes
<ul style="list-style-type: none"> <li>TCP/IP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SNMP v1</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SNMP v2</li> </ul>	No
<ul style="list-style-type: none"> <li>SNMP v3</li> </ul>	No
<ul style="list-style-type: none"> <li>DCP</li> </ul>	Yes
<ul style="list-style-type: none"> <li>EtherNet/IP protocol</li> </ul>	Yes
<ul style="list-style-type: none"> <li>OPC UA</li> </ul>	Yes
product feature / silicon-free	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	wireless according to RED directive, CE, IEC 62368, OPC UA: embedded UA Server Profile
certificate of suitability	
<ul style="list-style-type: none"> <li>IECEX</li> </ul>	No
MTBF	29 y
<b>further information / internet-Links</b>	
Internet-Link	
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
<ul style="list-style-type: none"> <li>to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
<ul style="list-style-type: none"> <li>to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
<ul style="list-style-type: none"> <li>to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>to website: CAX-Download-Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
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