

### Product type designation

### Reader RF615R FCC

SIMATIC RF600 Reader RF615R FCC; 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	902 ... 928 MHz
Transmit power	3 ... 400 mW
Equivalent isotropically radiated power	
<ul style="list-style-type: none"> <li>• for each external antenna / maximum</li> </ul>	1800 mW
<ul style="list-style-type: none"> <li>• minimum</li> </ul>	10 mW
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	400 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"> <li>• for write access / per byte / typical</li> </ul>	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"> <li>• for external antenna(s)</li> </ul>	RP-TNC
<ul style="list-style-type: none"> <li>• for supply voltage</li> </ul>	M12, 8-pin, connector
<ul style="list-style-type: none"> <li>• for communications interface</li> </ul>	M12, 4-pin, d-coded
<ul style="list-style-type: none"> <li>• at the digital inputs/outputs</li> </ul>	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"> <li>• at DC / Rated value</li> </ul>	24 V
<ul style="list-style-type: none"> <li>• at DC</li> </ul>	20 ... 30 V
Consumed current / at DC / at 24 V	
<ul style="list-style-type: none"> <li>• typical</li> </ul>	0.2 A
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	0.22 A

## Ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> </ul>	-25 ... +55 °C
<ul style="list-style-type: none"> <li>• during storage</li> </ul>	-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

## 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"> <li>• of antenna cable / minimum</li> </ul>	1 m
<ul style="list-style-type: none"> <li>• of antenna cable / maximum</li> </ul>	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"> <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

### Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> <li>• IECEx</li> </ul>	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"> <li>• to website: Selector SIMATIC NET 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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