

Product type designation

**RF180C communication module**  
RFID communication module RF180C for PROFINET; 2 readers can be connected; without connection block for PROFINET



Suitability for operation	PROFINET network together with RF200/300/600, MV400, MOBY D/E//U
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Transmission rate	
Transfer rate / for Industrial Ethernet	10 ... 100 Mbit/s
Transfer rate / at the point-to-point connection / serial / maximum	115.2 kbit/s

Interfaces	
Design of the interface / for point-to-point connection	RS422
Number of readers / connectable	2
Type of electrical connection	
• of Industrial Ethernet interface	(according to the connection block)
• for supply voltage	(according to the connection block)
Design of the interface / to the reader / for communication	M12, 8-pin

Mechanical data	
Material	Thermoplastic (Valox 467, fiberglass reinforced)
Color	IP Basic 714

Tightening torque / of the screw for securing the equipment / maximum	3 N·m
<b>Supply voltage, current consumption, power loss</b>	
Supply voltage	
• at DC / Rated value	24 V
• at DC	20 ... 30 V
Consumed current / at DC / at 24 V	
• without connected devices / typical	0.1 A
• with connected devices / maximum	1.1 A
<b>Permitted ambient conditions</b>	
Ambient temperature	
• during operation	0 ... 60 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Protection class IP	IP67
Shock resistance	According to IEC 61131-2
Shock acceleration	300 m/s <sup>2</sup>
Vibrational acceleration	100 m/s <sup>2</sup>
<b>Design, dimensions and weight</b>	
Width	60 mm
Height	30 mm
Depth	210 mm
Net weight	0.21 kg
Mounting type	2 x M5 screws
Wire length / for RS 422 interface / maximum	1000 m
<b>Product properties, functions, components / general</b>	
Display version	4 LEDs per reader connection, 4 LEDs for device status
Protocol / is supported / Media Redundancy Protocol (MRP)	No
Product function / transponder file handler can be addressed	Yes
Protocol / is supported	
• LLDP	Yes
• PROFINET IO protocol	Yes
• TCP/IP	No
• SNMP v1	Yes
• SNMP v2	No
• SNMP v3	No
• DCP	Yes
• EtherNet/IP protocol	No
Type of parameterization	GSDML

Type of programming	FB 45, FB 55, ID profile, library with functions
Type of computer-mediated communication	acyclic communication
<b>Standards, specifications, approvals</b>	
Certificate of suitability	CE, FCC, cULus, PNO: Conformance Class B
MTBF	121 y
<b>Accessories</b>	
accessories	Connection block M12 d-coded, 7/8" 5-pin or push-pull
<b>Further Information / Internet Links</b>	
Internet-Link	<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL <a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a></li> <li>• to website: Industrial communication <a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a></li> <li>• to website: Industry Mall <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a></li> <li>• to website: Information and Download Center <a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a></li> <li>• to website: Image database <a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a></li> <li>• to website: CAX Download Manager <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a></li> <li>• to website: Industry Online Support <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a></li> </ul>
<b>Security information</b>	
Security information	<p>Siemens provides products and solutions with industrial security functions that support the secure operation of plants, solutions, machines, equipment and/or networks. They are important components in a holistic industrial security concept. With this in mind, Siemens' products and solutions undergo continuous development. Siemens recommends strongly that you regularly check for product updates. For the secure operation of Siemens products and solutions, it is necessary to take suitable preventive action(e.g. cell protection concept) and integrate each component into a holistic, state-of-the-art industrial security concept. Third-party products that may be in use should also be considered. For more information about industrial security, visit <a href="http://www.siemens.com/industrialsecurity">http://www.siemens.com/industrialsecurity</a>. To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit <a href="http://support.automation.siemens.com">http://support.automation.siemens.com</a>. (V3.4)</p>

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