

### product type designation



### RF186C communication module

RFID communication module RF186C for PROFINET, Ethernet, EtherNet/IP, 2 readers connectable

### suitability for operation

IE / PN network together with RF200/300/1000 MV300/400/500

### transfer rate

transfer rate / for Industrial Ethernet	10 ... 100 Mbit/s
transfer rate / at the point-to-point connection / serial / maximum	921.6 kbit/s

### interfaces

design of the interface / for point-to-point connection	RS422/RS232
number of readers / connectable	2
type of electrical connection	
• of Industrial Ethernet interface	M12, d-coded
• for supply voltage	M12, L-coded
design of the interface / to the reader / for communication	M12, 8-pin
number of digital inputs	0
number of digital outputs	0

### mechanical data

material	Thermoplastic (Valox 467, fiberglass reinforced)
color	Al-grey 2001
tightening torque / of the screw for securing the equipment / maximum	3 N·m

### supply voltage, current consumption, power loss

supply voltage	
• at DC / rated value	24 V
• at DC	20.4 ... 28.8 V
• consumed current / at DC / at 24 V / without connected devices / typical	0.13 A
• Consumed current / from supply voltage 1L+ / maximum	4 A
continuous current / for loop-through to further bus nodes / at DC / maximum	12 A

### ambient conditions

ambient temperature	
• during operation	-25 ... +55 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
protection class IP	IP67
shock resistance	according to IEC 60068-2-27 and IEC 60068-2-6
shock acceleration	300 m/s <sup>2</sup>
vibrational acceleration	40 m/s <sup>2</sup>

### design, dimensions and weights

width	60 mm
height	45 mm

depth	165 mm
net weight	0.26 kg
fastening method	2 M4 screws
wire length / for RS 422 interface / maximum	1000 m
<b>product features, product functions, product components / general</b>	
display version	2 LEDs per reader connection, 3 LEDs for device status, 2 LEDs for Ethernet ports
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function / of the PROFINET IO device / is supported / H-Sync forwarding	No
product function / addressable transponder file handler	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
<b>product functions / management, configuration, engineering</b>	
type of parameterization	HSP, TO, WBM
type of programming	ID profile, library with functions, FB 45, OPC UA, XML
type of computer-switched communication	Acyclic communication, TCP/IP, implicit/explicit messaging
<b>standards, specifications, approvals</b>	
certificate of suitability	CE, FCC, cULus, PNO: Conformance Class B, Netload Class (SL1) III, OPC UA: Embedded UA Server Profile
certificate of suitability	
• IECEX	No
MTBF	70 a
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA 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>
• to website: Industrial communication	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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