

product type designation



communication module RF166C

RFID communication module RF166C for Profibus DP V1, Ethernet for wbm and OPC UA, 2 readers can be connected,

suitability for operation

PROFIBUS network according to DP-V1 together with RF200/300/600/1000, MV300/400/500

transfer rate

transfer rate / for Industrial Ethernet	10 ... 100 Mbit/s
transfer rate / with PROFIBUS	9.6 kbit/s ... 12 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 the PROFIBUS interface • of Industrial Ethernet interface • for supply voltage	M12, B-coded M12, d-coded 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 • at DC	24 V 20.4 ... 28.8 V
consumed current / at DC / at 24 V • without connected devices / typical • with connected devices / maximum	0.13 A 4 A
continuous current / for loop-through to further bus nodes / at DC / maximum	12 A

ambient conditions

ambient temperature • during operation • during storage • during transport	-25 ... +55 °C -40 ... +70 °C -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 ²

vibrational acceleration	40 m/s ²
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
product features, product functions, product components / general	
display version	2 LEDs per reader connection, 3 LEDs for device status, 1 LED for PROFIBUS, 1 LED for Ethernet port
protocol / is supported / Media Redundancy Protocol (MRP)	No
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
• PROFIBUS DP-V0 protocol	No
• PROFIBUS DP-V1 protocol	Yes
• PROFINET IO protocol	No
• TCP/IP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v3	No
• DCP	Yes
• EtherNet/IP protocol	No
• OPC UA	Yes
product feature / silicon-free	Yes
product functions / management, configuration, engineering	
type of parameterization	HSP, TO, WBM, GSD
type of programming	ID profile, library with functions, FB 45, OPC UA
type of computer-switched communication	Non-cyclic communication, TCP/IP
standards, specifications, approvals	
certificate of suitability	CE, FCC, cULus, PROFIBUS certificate
certificate of suitability	
• IECEx	No
MTBF	76 y
further information / internet-Links	
Internet-Link	
• to web page: selection aid TIA Selection Tool	https://support.industry.siemens.com/cs/ww/en/view/67384964
• to website: Industrial communication	http://www.siemens.com/ident/rfid
• to website: Industry Mall	https://mall.industry.siemens.com
• to website: Information and Download Center	http://www.siemens.com/industry/infocenter
• to website: Image database	http://automation.siemens.com/bilddb
• to website: CAX-Download-Manager	http://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	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 http://www.siemens.com/industrialsecurity . To stay informed about product updates as they occur, sign up for a product-specific newsletter. For more information, visit http://support.automation.siemens.com . (V3.4)

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