

product type designation



RF186C communication module

RFID communication module RF186C for PROFINET, Ethernet, EtherNet/IP, OPC-UA, 2 readers can be connected

Technical Product Detail Page

<https://i.siemens.com/1P6GT2002-0JE20>

suitability for operation

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

transfer rate

transfer rate / for Industrial Ethernet

100 ... 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
- for supply voltage

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
-

24 V
20.4 ... 28.8 V

consumed current

- at DC / at 24 V / without connected devices / typical
- from supply voltage 1L+ / 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/s²

vibrational acceleration

40 m/s²

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, 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	Yes
• DCP	Yes
• EtherNet/IP protocol	Yes
• OPC UA	Yes
product feature / silicon-free	Yes
product functions / management, configuration, engineering	
type of parameterization	HSP, GSDML, EDS, TO, WBM
type of programming	ID profile, library with functions, FB 45, OPC UA, XML
type of computer-switched communication	acyclic communication, communication via process image, TCP/IP
standards, specifications, approvals	
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
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	101.43 kg
• during manufacturing	16 kg
• during operation	85.3 kg
• after end of life	0.13 kg
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to web page: identification and localization systems	https://www.siemens.com/ident
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAX-Download-Manager	https://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 cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or

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Approvals / Certificates

General Product Approval

[Declaration of Con-
formity](#)



[China RoHS](#)

[Declaration of Con-
formity](#)

General Product Ap- proval	Radio Equipment Type Approval Certi- ficate	other	Environment	Industrial Communication
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[KC](#)

[Miscellaneous](#)



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