

Product type designation

RF120C communication module

RFID communication module RF120C for SIMATIC S7-1200; 1 reader connectable; RS-422



Suitability for operation

SIMATIC S7-1200 together with RF200/300/600, MV400, MOBY D/U

Transmission rate

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 1

Type of electrical connection

- of the backplane bus S7-1200 backplane bus
- for supply voltage Screw terminals

Design of the interface / to the reader / for communication D-sub, 9-pin, socket

Mechanical data

Material Xantar MX 1094

Color Ti-grey 24L01

Tightening torque / of the screw for securing the equipment / maximum 0.45 N·m

Supply voltage, current consumption, power loss

Supply voltage	
• at DC / Rated value	24 V
• at DC	20 ... 30 V
Consumed current / at DC / at 24 V	
• without connected devices / typical	0.03 A
• with connected devices / maximum	1 A

Permitted ambient conditions

Ambient temperature	
• during operation	0 ... 55 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
Protection class IP	IP20
Shock resistance	According to IEC 61131-2
Shock acceleration	300 m/s ²
Vibrational acceleration	100 m/s ²

Design, dimensions and weight

Width	30 mm
Height	100 mm
Depth	75 mm
Net weight	0.15 kg
Mounting type	S7-1200 rack
Wire length / for RS 422 interface / maximum	1000 m

Product properties, functions, components / general

Display version	4 LEDs for reader connection, 1 LED for device status
Product function / transponder file handler can be addressed	No
Protocol / is supported	
• S7 communication	Yes
Type of parameterization	HSP
Type of programming	FB 45, FB 55, FC 56 (FC 45/55 with limited functionality)
Type of computer-mediated communication	acyclic communication

Standards, specifications, approvals

Certificate of suitability	CE, FCC, cULus, KCC, C-Tick, FM, Ex: II 3G Ex nAA IIC T4 Gc
MTBF	196 y

Further Information / Internet Links

Internet-Link	
• to website: Selector SIMATIC NET 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
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<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)

last modified:

12/14/2018