

product type designation



RF120C communication module

RFID communication module RF120C for SIMATIC S7-1200; 1 reader connectable; RS-422 or RS232.

suitability for operation

SIMATIC S7-1200 together with RF200/300/1000, MV300/400/500, MOBY D/U

transfer 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/RS232

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 sub-D, 9-pin, female

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
- 20 ... 30 V

consumed current

- at DC / at 24 V / without connected devices / typical 0.03 A
- from supply voltage 1L+ / maximum 1 A

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/s²

vibrational acceleration 100 m/s²

design, dimensions and weights

width 30 mm

height 100 mm

depth 75 mm

net weight 0.15 kg

fastening method S7-1200 rack

wire length / for RS 422 interface / maximum 1000 m

product features, product functions, product components / general

display version	4 LEDs for reader connection, 1 LED for device status
product function / addressable transponder file handler	No
protocol / is supported	Yes
<ul style="list-style-type: none"> • S7 communication 	Yes

product functions / management, configuration, engineering

type of parameterization	HSP, TO
type of programming	ID profile, library with functions
type of computer-switched communication	acyclic communication

standards, specifications, approvals

certificate of suitability	CE, FCC, cULus, KCC, C-Tick, FM
certificate of suitability	Yes
<ul style="list-style-type: none"> • IECEx • for IECEx / as marking 	Ex: II 3G Ex nAA IIC T4 Gc
MTBF	196 a
reference code	KEC
<ul style="list-style-type: none"> • according to IEC 81346-2:2019 	KEC
product function / is supported / identification link	Yes

standards, specifications, approvals / Environmental Product Declaration

Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
<ul style="list-style-type: none"> • total • during manufacturing • during operation • after end of life 	101.43 kg 16 kg 85.3 kg 0.13 kg

further information / internet links

internet link	
<ul style="list-style-type: none"> • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: identification and localization systems • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support 	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://www.siemens.com/ident https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com

security information

security information	<p>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 network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)</p>
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Approvals / Certificates

General Product Approval

[Declaration of Conformity](#)



EG-Konf.



CCC



UL



RCM

General Product Approval	EMV	For use in hazardous locations
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[KC](#)



[FM](#)

[CCC-Ex](#)

Environment

[Confirmation](#)



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