

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
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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	
• 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	
• IECEx	Yes
• for IECEx / as marking	Ex: II 3G Ex nAA IIC T4 Gc
MTBF	196 a
reference code	
• according to IEC 81346-2:2019	KEC
standards, specifications, approvals / Environmental Product Declaration	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	112.73 kg
• during manufacturing	15.07 kg
• during operation	97.62 kg
• after end of life	0.042 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	
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Declaration of Conformity	    
EMV	For use in hazardous locations
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