SIEMENS

Data sheet 6GT2002-0LA00

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	

Subject to change without notice
© Copyright Siemens

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
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	35.74 kg
● during manufacturing	16 kg
● during operation	19.61 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 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)

Approvals / Certificates

General Product Approval

Declaration of Conformity

EG-Konf. CCC UL RCM TÜV

EMV	For use in hazardous locations	Environment

Subject to change without notice
© Copyright Siemens

KC IECEx ATEX FM CCC-Ex Confirmation

Environment

EPD

last modified: 2/21/2025

Subject to change without notice
© Copyright Siemens