

product type designation



RF290R reader

SIMATIC RF200 reader RF290R without antenna; with serial RS 232/RS 422 interface can be selected for connection of the antennas ANT D2; ANT D5; ANT D6; ANT D10.

product brand name	SIMATIC RF
Technical Product Detail Page	https://l.siemens.com/1P6GT2821-0AC12
suitability for operation	ISO 15693 Transponder (MDS Dxxx), for connecting to communication modules and PC systems
radio frequencies	
operating frequency / rated value	13.56 MHz
range / maximum	650 mm; Range adjustable in reader via transmission power, range is dependent on transponder type: observe http://support.automation.siemens.com/WW/view/en/67384964
protocol / with radio transmission	ISO 15693, ISO 18000-3
transfer rate / with radio transmission / maximum	26.5 kbit/s
product feature / multitag-capable	Yes
electrical data	
transfer rate / at the point-to-point connection / serial / maximum	115.2 kbit/s
transmission time / for user data	
• for write access / per byte / typical	0.6 ms
• for read access / per byte / typical	0.6 ms
interfaces	
number of external antennas	1
standard for interfaces / for communication	RS422/RS232
type of electrical connection	M12, 8-pin
• for external antenna(s)	TNC
• for supply voltage	M12, 8-pin
• for communications interface	M12, 8-pin
• at the digital inputs/outputs	M12, 4-pin, female connector
number of digital inputs	1
number of digital outputs	1
mechanical data	
material	aluminum
color	silver/anthracite
tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
mounting distance / relating to metal surfaces / recommended / minimum	0 mm
supply voltage, current consumption, power loss	
supply voltage / at DC	
• rated value	24 V
•	21.6 ... 26.4 V
consumed current / at DC	

<ul style="list-style-type: none"> • at 24 V / typical • at 24 V / maximum 	<p>0.4 A</p> <p>0.5 A</p>
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during storage • during transport 	<p>-20 ... +55 °C</p> <p>-25 ... +85 °C</p> <p>-25 ... +85 °C</p>
protection class IP	IP65
shock resistance	EN 60721-3-7 Class 7 M2
shock acceleration	300 m/s ²
vibrational acceleration	20 m/s ²
design, dimensions and weights	
width	200 mm
height	80 mm
depth	140 mm
net weight	1.8 kg
fastening method	4 M4 screws, DIN rail 35 mm, S7-300 mounting rail
wire length	
<ul style="list-style-type: none"> • of antenna cable / minimum • of antenna cable / maximum • with RS 232 interface / maximum • for RS 422 interface / maximum 	<p>3.3 m</p> <p>25 m</p> <p>30 m</p> <p>1000 m</p>
product features, product functions, product components / general	
display version	4 LEDs
standards, specifications, approvals	
certificate of suitability	CE, FCC, IC (Canada)
certificate of suitability	
<ul style="list-style-type: none"> • IECEx 	No
MTBF	18 a
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 	<p>270.95999 kg</p> <p>27.9 kg</p> <p>243 kg</p> <p>0.06 kg</p>
accessories	
accessories	Various antennas are available, antenna combiners, antenna multiplexer, mounting set for top-hat rail mounting
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: RFID country approval • 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 	<p>https://support.industry.siemens.com/cs/ww/en/view/109766358</p> <p>https://www.siemens.com/tstcloud</p> <p>https://www.siemens.com/rfid-approvals</p> <p>https://www.siemens.com/ident</p> <p>https://sieportal.siemens.com/</p> <p>https://www.automation.siemens.com/bilddb</p> <p>https://www.siemens.com/cax</p> <p>https://support.industry.siemens.com</p>
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

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Approvals / Certificates

General Product Approval



[China RoHS](#)



General Product Approval

EMV

Radio Equipment Type Approval Certificate



[Manufacturer Declaration](#)



[Miscellaneous](#)

[Industry Canada \(IC\)](#)

[FCC](#)

Radio Equipment Type Approval Certificate

Environment



[Miscellaneous](#)



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