



SIMATIC RF300; compact reader RF360R; for PROFINET, Ethernet, EtherNet/IP, OPC/UA

Technical Product Detail Page	<a href="https://l.siemens.com/1P6GT2801-5BA30">https://l.siemens.com/1P6GT2801-5BA30</a>
suitability for operation	RF300 and ISO 15693 transponder, for direct connection to Ethernet, PROFINET, OPC UA server integrated
<b>radio frequencies</b>	
operating frequency / rated value	13.56 MHz
range / maximum	150 mm; Range is dependent on transponder type: observe <a href="http://support.automation.siemens.com/WW/view/en/67384964">http://support.automation.siemens.com/WW/view/en/67384964</a>
protocol / with radio transmission	RF300-specific, ISO 15693, ISO 18000-3
transfer rate / with radio transmission / maximum	106 kbit/s
product feature / multitag-capable	No
<b>electrical data</b>	
transmission time / for user data	
• for write access / per byte / typical	0.13 ms
• for read access / per byte / typical	0.13 ms
<b>interfaces</b>	
standard for interfaces / for communication	Ethernet, PROFINET, XML, OPC/UA
type of electrical connection	#NO_DATA
• for external antenna(s)	#NO_DATA
• for supply voltage	M12, 4-pin, socket, L-code
• for communications interface	2 x M12, 4-pin, D-coded
<b>mechanical data</b>	
material	PA 12
color	titanium gray
tightening torque / of the screw for securing the equipment / maximum	1.5 N·m
mounting distance / relating to metal surfaces / recommended / minimum	0 mm
<b>supply voltage, current consumption, power loss</b>	
supply voltage / at DC	
• rated value	24 V
•	20.4 ... 28.8 V
consumed current / at DC	
• at 24 V / typical	0.15 A
<b>ambient conditions</b>	
ambient temperature	
• during operation	-25 ... +55 °C
• during storage	-40 ... +70 °C
• during transport	-40 ... +70 °C
protection class IP	IP67
shock resistance	EN 60721-3-7 Class 7 M2

shock acceleration	500 m/s <sup>2</sup>
vibrational acceleration	200 m/s <sup>2</sup>
<b>design, dimensions and weights</b>	
width	141 mm
height	42 mm
depth	80 mm
net weight	0.41 kg
fastening method	4 x M5 screws
<b>product features, product functions, product components / general</b>	
display version	5-color LED
protocol / is supported / Media Redundancy Protocol (MRP)	Yes
product function / of the PROFINET IO device / is supported / H-Sync forwarding	No
protocol / is supported	
• LLDP	Yes
• PROFINET IO protocol	Yes
• TCP/IP	Yes
• SNMP v1	Yes
• SNMP v2	No
• SNMP v3	Yes
• DCP	Yes
• EtherNet/IP protocol	No
• OPC UA	Yes
product feature / silicon-free	Yes
<b>product functions / management, configuration, engineering</b>	
type of parameterization	HSP, GSDML, EDS, TO, WBM
type of programming	Ident profile, library with functions, OPC UA, XML
type of computer-switched communication	acyclic communication, TCP/IP
<b>standards, specifications, approvals</b>	
certificate of suitability	Radio acc. to R&TTE guidelines EN 300 330, EN 301489, CE, FCC, cULus, ATEX: EN 60079-0:2012+A11:2013, EN 60079-7:2015, EN60079-31:2014, IEC Ex: IEC 60079-0:2011, IEC 60079-31:2013, EN 60079-7:2015, UL HAZ.LOC: UL 60079-0, CSA C22.2 NO.60079-0, UL 60079-7, CSA C22.2 NO. 60079-7, UL 60079-31, CSA C22.2 NO. 60079-31
certificate of suitability	
• IECEx	No
MTBF	65 a
<b>standards, specifications, approvals / Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	169.48 kg
• during manufacturing	71.5 kg
• during operation	97.11 kg
• after end of life	0.87 kg
<b>further information / internet links</b>	
internet link	
• to website: Selection guide for cables and connectors	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>
• to web page: selection aid TIA Selection Tool	<a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>
• to web page: RFID country approval	<a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a>
• to web page: identification and localization systems	<a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a>
• to web page: SiePortal	<a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>
• to website: Image database	<a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>
• to website: CAX-Download-Manager	<a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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

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**Approvals / Certificates**

**General Product Approval**



[China RoHS](#)

[Declaration of Conformity](#)



General Product Approval	Radio Equipment Type Approval Certificate	Environment	Industrial Communication
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[Type Examination Certificate](#)

[Miscellaneous](#)

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last modified:

11/13/2025