

### product type designation



### Antenna RF650A

SIMATIC RF600 antenna RF650A; circular, frequency range 865 up to 928MHz broadband Dimensions 198x 198x 60 mm (LxWxH); IP65, -25 to +75 °C.

product brand name	SIMATIC RF
Technical Product Detail Page	<a href="https://l.siemens.com/1P6GT2812-0GB08">https://l.siemens.com/1P6GT2812-0GB08</a>
suitability for operation	SIMATIC RF600
<b>radio frequencies</b>	
transmission frequency	865 ... 928 MHz
<b>electrical data</b>	
antenna gain compared to spherical radiator	
• with circular radiation	4 dB
impedance	50 Ω
polarization	Circular
standing wave ratio (VSWR) / maximum	1.45
radiating angle of the antenna	
• horizontal	90°
• vertical	76°
type of electrical connection / of the antenna	RP-TNC
design of plug-in connection	male
<b>mechanical data</b>	
material	Pocan
color	Pastel turquoise
tightening torque / of the screw for securing the equipment / maximum	2 N·m
mounting distance	
• relating to metal surfaces / recommended / minimum	0 m
<b>ambient conditions</b>	
ambient temperature	
• during operation	-25 ... +75 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
protection class IP	IP65
shock acceleration	300 m/s <sup>2</sup>
vibrational acceleration	100 m/s <sup>2</sup>
<b>design, dimensions and weights</b>	
width	198 mm
height	198 mm
depth	60 mm
net weight	680 g
fastening method	4 screws M4 according to VESA 100, optional with articulated bracket by using antenna mounting kit

wire length / of antenna cable	0 m
<b>product features, product functions, product components / general</b>	
product feature / silicon-free	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	CE (according to R&TTE), FCC (Title 47, Part 15.247), cULus
certificate of suitability <ul style="list-style-type: none"> <li>• IECEX</li> </ul>	No
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
<b>accessories</b>	
accessories	Antenna cables 1 to 40 m
<b>further information / internet links</b>	
internet link <ul style="list-style-type: none"> <li>• to website: Selection guide for cables and connectors</li> <li>• to web page: selection aid TIA Selection Tool</li> <li>• to web page: RFID country approval</li> <li>• to web page: identification and localization systems</li> <li>• to web page: SiePortal</li> <li>• to website: Image database</li> <li>• to website: CAx-Download-Manager</li> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a> <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a> <a href="https://www.siemens.com/rfid-approvals">https://www.siemens.com/rfid-approvals</a> <a href="https://www.siemens.com/ident">https://www.siemens.com/ident</a> <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a> <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>security information</b>	
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