SIEMENS

Data sheet 6GT2812-0GB08

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.

Technical Product Detail Page	https://i.siemens.com/1P6GT2812-0GB08
suitability for operation	SIMATIC RF600
radio frequencies	
transmission frequency	865 ... 928 MHz
electrical data	
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
mechanical data	
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
ambient conditions	
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/s²
vibrational acceleration	100 m/s²
design, dimensions and weights	
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

Subject to change without notice
© Copyright Siemens

product features, product functions, product components / general	
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	CE (according to R&TTE), FCC (Title 47, Part 15.247), cULus
certificate of suitability	
● IECEx	No
product function / is supported / identification link	Yes; acc. to IEC 61406-1:2022
accessories	
accessories	Antenna cables 1 to 40 m
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: RFID country approval	https://www.siemens.com/rfid-approvals
● 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)

last modified: 11/11/2025

© Copyright Siemens