SIEMENS

Data sheet 6GK5897-5PN00-0AA0



ANT897-5PN antenna for private 5G mobile networks and WLAN with 4 antenna elements; omnidirectional characteristic; 2.3..7.2 GHz; antenna gain: 4..6dBi, including 4x cables with N-Connect female connection staggered length 20..27 cm; IP69K; -30..+70 °C; observe national approvals; mounting on roof, vehicle and ceiling; information sheet as hard copy German/English.

Technical Product Detail Page	https://i.siemens.com/1P6GK5897-5PN00-0AA0
suitability for operation	antenna for 5G/4G/3G/2G networks & IWLAN
radio frequencies	
type of wireless network / is supported	5G private networks, WLAN
operating frequency / 1	2300 ... 2700 MHz
operating frequency / 2	3400 ... 4200 MHz
operating frequency / 3	4900 ... 7200 MHz
electrical data	
antenna gain compared to spherical radiator	
● with linear radiation	typical maximum gain measured in open space
● with linear radiation / in operating frequency area 1 / typical	3 dB
● with linear radiation / in operating frequency area 2 / typical	5 dB
● with linear radiation / in operating frequency area 3 / typical	6 dB
impedance	50 Ω
polarization	Linear Vertical
radiation characteristic	omnidirectional
standing wave ratio (VSWR) / maximum	2
number of electrical connections / of the antenna	4
type of electrical connection / of the antenna	N-Connector
design of plug-in connection	female
mechanical data	
material	
● of outer shell	Lexan EXL 9330
color	white
color / of cable sheath	light gray
ambient conditions	
ambient temperature	
● during operation	-30 ... +70 °C
● during storage	-40 ... +85 °C
● during transport	-40 ... +85 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP69K; with correct installation
design, dimensions and weights	
height	30 mm
diameter	115 mm
net weight	330 g

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fastening method	from outside in 24 mm drill hole, one stainless steel nut
fastening method	
● mast mounting	No
● flat roof mounting	Yes
● wall mounting	No
● roof mounting	Yes
● directly on the device	No
cable designation	CS32
wire length / of antenna cable / graded	0.2 ... 0.275 m
product features, product functions, product components / general	
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	
● RoHS conformity	Yes
wireless approval	Current national approvals can be found on the Internet under www.siemens.com/mobilfunkzulassungen
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 website: Mobile radio national approval	https://www.siemens.com/mobile-approvals
● to website: Industrial communication	https://www.siemens.com/simatic-net
● 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)

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