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Data sheet 6GK5896-6MH00-0AA0

product type designation	**Antenna ANT896-6MH**
	ANT896-6MH mobile wireless antenna for GSM (2G), UMTS (3G) and LTE (4G) Networks, for Suitable for railway applications, Omnidirectional Characteristic, including N-Connect female connection; 5/6 dBi; IP69K (-40...+85 °C), observe national approvals; mounting on vehicle roof; compact instructions as hard copy German/English; scope of delivery: 1x ANT 896-6MH,.



product brand name	SCALANCE
Technical Product Detail Page	https://i.siemens.com/1P6GK5896-6MH00-0AA0
radio frequencies	
type of wireless network / is supported	LTE, UMTS, GSM
operating frequency / 1	790 ... 960 MHz
operating frequency / 2	1350 ... 2700 MHz
operating frequency	
● for WLAN in 2.4 GHz frequency band	2.4 ... 2.7 GHz
electrical data	
antenna gain compared to spherical radiator	
● with linear radiation	measured on a metal floor area 1x1m
● with linear radiation / in operating frequency area 1 / typical	5 dB
● with linear radiation / in operating frequency area 2 / typical	5 dB
impedance	50 Ω
polarization	Linear Vertical
radiation characteristic	omnidirectional
standing wave ratio (VSWR) / maximum	2.2
radiating angle of the antenna	
● horizontal	360°
number of electrical connections / of the antenna	1
type of electrical connection / of the antenna	N-Connector
design of plug-in connection	female
ambient conditions	
ambient temperature	
● during operation	-40 ... +85 °C
● during storage	-40 ... +85 °C
protection class IP	IP69K
wind load / maximum	Survival at 500 km/h
design, dimensions and weights	
width	100 mm
height	40 mm
depth	145 mm
net weight	488 g
fastening method	
● mast mounting	No
● flat roof mounting	Yes

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● directly on the device	No
product features, product functions, product components / general	
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	Railway application acc. to DIN5510-2, BS6853, NF-F-16-101, NF-F-16-102
certificate of suitability	
● RoHS conformity	Yes
● railway application in accordance with EN 50155	Yes
● fire protection in accordance with EN 45545-2	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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