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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,.



radio frequencies	
type of wireless network / is supported	LTE, UMTS, GSM
operating frequency	700 MHz, 800 MHz, 850 MHz, 900 MHz, 1575.42 MHz, 1700 MHz, 1800 MHz, 1900 MHz, 2100 MHz, 2600 MHz
operating frequency	
● for WLAN in 2.4 GHz frequency band	2.4 ... 2.7 GHz
antenna gain compared to spherical radiator	
● with linear radiation	5 dB
electrical data	
impedance	50 Ω
polarization	linear vertical
radiation characteristic	omnidirectional
antenna gain compared to spherical radiator	
● with linear radiation	5 dB
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
● 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

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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
reference code / according to IEC 81346-2:2019	TFB

further information / internet-Links

Internet-Link	
● to web page: selection aid TIA Selection Tool	http://www.siemens.com/snst
● to website: Industrial communication	http://www.siemens.com/simatic-net
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

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