SIEMENS

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, incl. N-female connector: 5/6 dBi; IP69K (-40...+85 °C), Observe national approvals; Mounting on vehicle roof; compact instructions as hard copy English/German; scope of delivery: 1x ANT 896-6MH,

Radio frequencies	
Type of mobile network / is supported	GSM, UMTS, LTE
Operating frequency	
• for WLAN in 2.4 GHz frequency band	2.4 ... 2.7 GHz
Operating frequency	700 MHz, 800 MHz, 850 MHz, 900 MHz, 1575.42 MHz, 1700 MHz, 1800 MHz, 1900 MHz, 2100 MHz, 2600 MHz

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
Mounting type	
• 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
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: Selector SIMATIC NET 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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