

product type designation



Antenna ANT896-6MM

***** spare part ***** ANT896-6MM mobile wireless antenna for GSM (2G), UMTS (3G), LTE-EU- (4G) networks, GPS and WLAN 2.4/5 GHz, with E1 approval, omni-directional characteristic, incl. 3x pigtail with QMA connector antenna gain: 5/8 dBi IP69K (-40...+85 °C), observe national approvals; mounting on vehicle roof; compact instructions as hard copy German/English; scope of delivery: 1x ANT 896-6MM,.

suitability for operation

Vehicle antenna for mobile radio, GPS and IWLAN

radio frequencies

type of wireless network / is supported	LTE, UMTS, GSM, WLAN
type of satellite navigation system / is supported / GPS, GLONASS and Galileo	Yes
operating frequency	800 MHz, 850 MHz, 900 MHz, 1575.42 MHz, 1700 MHz, 1800 MHz, 1900 MHz, 2100 MHz, 2200 MHz, 2600 MHz
operating frequency <ul style="list-style-type: none"> • for WLAN in 2.4 GHz frequency band • for WLAN in 5 GHz frequency band 1 	2.4 ... 2.69 GHz 4.9 ... 5.935 GHz
antenna gain compared to spherical radiator <ul style="list-style-type: none"> • with linear radiation • with circular radiation • of the WLAN antenna / in the 2.4 GHz frequency band • of the WLAN antenna / in the 5 GHz frequency band 	5 dB 30 dB; total gain at 90° 6 dB 7 dB

electrical data

supply voltage / from antenna wire	3 ... 5 V
type of voltage / of the supply voltage	DC
consumed current / maximum	30 mA; at 5V
impedance	50 Ω
polarization	Connection 1+2: linear vertical, connection 3 (GPS): circular clockwise
antenna gain compared to spherical radiator <ul style="list-style-type: none"> • with linear radiation • with circular radiation • of the WLAN antenna / in the 2.4 GHz frequency band • of the WLAN antenna / in the 5 GHz frequency band 	5 dB 30 dB; total gain at 90° 6 dB 7 dB
standing wave ratio (VSWR) / maximum	1.8
design of plug-in connection	female

mechanical data

material <ul style="list-style-type: none"> • of outer shell 	ASA
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ambient conditions

ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport 	-40 ... +85 °C -40 ... +85 °C -40 ... +85 °C
protection class IP	IP68/IP69K

design, dimensions and weights	
width	83 mm
height	82 mm
depth	208 mm
net weight	380 g
fastening method	
• mast mounting	No
• flat roof mounting	Yes
• wall mounting	No
• roof mounting	No
• directly on the device	No
wire length / of antenna wire	0.3 m
product features, product functions, product components / general	
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	E-mark
certificate of suitability	
• CE marking	Yes
• RoHS conformity	Yes
product conformity	UL 94-HB
wireless approval	Current national approvals can be found on the Internet under www.siemens.com/mobilfunkzulassungen
reference code	
• according to IEC 81346-2	TF
• 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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