

### 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"> <li>for WLAN in 2.4 GHz frequency band</li> <li>for WLAN in 5 GHz frequency band 1</li> </ul>	2.4 ... 2.69 GHz 4.9 ... 5.935 GHz
antenna gain compared to spherical radiator <ul style="list-style-type: none"> <li>with linear radiation</li> <li>with circular radiation</li> <li>of the WLAN antenna / in the 2.4 GHz frequency band</li> <li>of the WLAN antenna / in the 5 GHz frequency band</li> </ul>	5 dB 30 dB; total gain at 90° 6 dB 7 dB

### electrical data

supply voltage / from antenna cable	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"> <li>with linear radiation</li> <li>with circular radiation</li> <li>of the WLAN antenna / in the 2.4 GHz frequency band</li> <li>of the WLAN antenna / in the 5 GHz frequency band</li> </ul>	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"> <li>of outer shell</li> </ul>	ASA
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### ambient conditions

ambient temperature <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> <li>during transport</li> </ul>	-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 cable	0.3 m
<b>product features, product functions, product components / general</b>	
product feature / silicon-free	Yes
<b>standards, specifications, approvals</b>	
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 81346-2:2019	TFB
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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