# **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 wireless network / is supported                 | GSM, UMTS, LTE  |
| operating frequency                                     |   |
| <ul> <li>for WLAN in 2.4 GHz frequency band</li> </ul>  | 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                                     |   |
| <ul> <li>during operation</li> </ul>                    | -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  |   |
| <ul> <li>flat roof mounting</li> </ul>                  | Yes   |
| <ul> <li>directly on the device</li> </ul>              | 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-                              |

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|---|---|
| certificate of suitability  |   |
| <ul> <li>RoHS conformity</li> </ul>   | Yes   |
| <ul> <li>railway application in accordance with EN 50155</li> </ul>   | 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   |   |
| Internet-Link • to web page: selection aid TIA Selection Tool   | http://www.siemens.com/snst   |
|   | http://www.siemens.com/snst<br>http://www.siemens.com/simatic-net   |
| to web page: selection aid TIA Selection Tool   | ·   |
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| <ul> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> </ul>  | http://www.siemens.com/simatic-net<br>https://mall.industry.siemens.com   |
| <ul> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: Industry Mall</li> <li>to website: Information and Download Center</li> </ul> | http://www.siemens.com/simatic-net https://mall.industry.siemens.com http://www.siemens.com/industry/infocenter |

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