

Product type designation

Antenna ANT795-6MN

IWLAN ANTENNA ANT 795-6MN WITH OMNIDIRECTIONAL CHARACTERISTIC INCL. N-FEMALE CONNECTOR: 6/8 DBI; IP65 (-40-+70 DGR C), 2.4/5GHZ; WI-FI COMPLIANCE AND NATIONAL APPROVALS; MOUNTING ON ROOF AND VEHICLES; COMPACT MANUAL ON PAPER GERMAN / ENGLISH; SCOPE OF SUPPLY: 1X ANT795-6MN, 1X TERMINATING RESISTANCE TI795-1R FOR MOUNTING USE MOUNTING SUPPORT 6GK5795-6MN01-0AA6



Wireless frequencies

Type of mobile network / is supported	WLAN
Operating frequency	
• for WLAN in 2.4 GHz frequency band	2.4 ... 2.7 GHz
• for WLAN in 5 GHz frequency band 1	3.4 ... 3.7 GHz
• for WLAN in 5 GHz frequency band 2	4.9 ... 5.935 GHz

Electrical data

Impedance	50 Ω
Polarization	linear vertical
Radiation characteristic	omnidirectional
Antenna gain compared to spherical radiator	
• of the WLAN antenna / in the 2.4 GHz frequency band	6 dB
• of the WLAN antenna / in the 5 GHz frequency band	8 dB
Standing wave ratio (VSWR) / maximum	1.8
Radiating angle of the antenna	
• in the 2.4 GHz frequency band / horizontal	360°

• in the 5 GHz frequency band / horizontal	150°
Opening angle / Note	Note the antenna diagram regarding horizontal beam angle
Type of electrical connection / of the antenna	N-Connector
Design of plug-in connection	female
Angle of inclination / downward / maximum	0°
Transmit power / maximum	75 W; at 25° ambient temperature
Range / with clear line of sight / without disturbance	200 m; Remark: the distance can be much less and is depending on the space around, on the wireless standard in use, on the data rate and on the antenna installed on the partner station

Mechanical data

Material	
• of outer shell	Polycarbonate

Permitted ambient conditions

Ambient temperature	
• during operation	-40 ... +80 °C
• during storage	-40 ... +80 °C
• during transport	-40 ... +80 °C
Protection class IP	IP65
Wind load / maximum	10 N; at 160 km/h

Design, dimensions and weight

Width	86 mm
Height	43 mm
Depth	86 mm
Net weight	300 g
Mounting type	
• mast mounting	No
• wall mounting	Yes
• roof mounting	Yes
• directly on the device	No

Product properties, functions, components / general

Product feature / silicon-free	Yes
--------------------------------	-----

Standards, specifications, approvals

Certificate of suitability	Railway application in accordance with NF-F-16-101, NF-F-16-102
Certificate of suitability	
• RoHS conformity	Yes
• Railway application in accordance with EN 50124-1	Yes
• Railway application in accordance with EN 50155	Yes

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>

last modified:

10/14/2016