

Product type designation

Antenna ANT793-8DL

ANT793-8DL IWLAN antenna vertically-horizontally polarized with strong directional effect incl. 2x N-female socket; 14 dBi; IP66 (-45-+70°C), 5 GHz; suitable for railway applications; Wi-Fi compliance and Observe national approvals; Mounting on wall or mast; compact instructions as hard copy English/German; scope of delivery: 1x ANT793-8DL, 1x mounting aid for alignment

Radio frequencies

Type of mobile network / is supported	WLAN
Operating frequency <ul style="list-style-type: none"> • for WLAN in 5 GHz frequency band 1 	4.9 ... 5.9 GHz

Electrical data

Impedance	50 Ω
Polarization	Dual linear vertical-horizontal
Radiation characteristic	directional
Antenna gain compared to spherical radiator <ul style="list-style-type: none"> • of the WLAN antenna / in the 5 GHz frequency band 	14 dB
Standing wave ratio (VSWR) / maximum	2.5
Radiating angle of the antenna <ul style="list-style-type: none"> • in the 5 GHz frequency band / horizontal • in the 5 GHz frequency band / vertical 	30° 30°
Opening angle / Note	Note antenna diagram
Number of electrical connections / of the antenna	2
Type of electrical connection / of the antenna	N-Connector
Design of plug-in connection	female
Crosstalk attenuation / between the antenna connections	19 dB
Front-to-back ratio	35 dB

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 ... +70 °C -40 ... +70 °C -40 ... +70 °C
Protection class IP	IP66

Wind load / maximum	suitable for wind speeds up to 200 km/h
Width	100 mm
Height	283 mm; incl. bracket
Depth	40 mm
Net weight	520 g
Mounting type	
• mast mounting	No
• flat-roof mounting	No
• wall mounting	Yes
• 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	
• 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/funkzulassungen

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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