

product type designation



Antenna ANT795-4MX

ANT795-4MX antenna with omnidirectional characteristic; with railway approval; incl. N-Connect male plug straight: 2/2.5 dBi; IP68/69K (-40-+85 °C), WLAN 2.4/5 GHz and private 5G networks; Wi-Fi compliance and observe national approvals; direct mounting on SCALANCE devices with N-Connect connection system; scope of delivery: 1x ANT795-4MX, compact instructions as hard copy German/English.

radio frequencies	
type of wireless network / is supported	5G private networks, WLAN
operating frequency / 1	1700 ... 2000 MHz
operating frequency / 2	2000 ... 2700 MHz
operating frequency / 3	2700 ... 3800 MHz
operating frequency / 4	4900 ... 5925 MHz
operating frequency / 5	5925 ... 7125 MHz
antenna gain compared to spherical radiator	
<ul style="list-style-type: none"> with linear radiation / in operating frequency area 1 / typical 	1.5 dB
<ul style="list-style-type: none"> with linear radiation / in operating frequency area 2 / typical 	2 dB
<ul style="list-style-type: none"> with linear radiation / in operating frequency area 3 / typical 	1.5 dB
<ul style="list-style-type: none"> with linear radiation / in operating frequency area 4 / typical 	2 dB
<ul style="list-style-type: none"> with linear radiation / in operating frequency area 5 / typical 	2.5 dB
<ul style="list-style-type: none"> with linear radiation / in operating frequency area 6 / typical 	3 dB
electrical data	
impedance	50 Ω
polarization	linear vertical
radiation characteristic	omnidirectional
standing wave ratio (VSWR) / maximum	2
radiating angle of the antenna	
<ul style="list-style-type: none"> in the 2.4 GHz frequency band / horizontal 	360°
<ul style="list-style-type: none"> in the 5 GHz frequency band / horizontal 	360°
number of electrical connections / of the antenna	1
type of electrical connection / of the antenna	N-Connector
design of plug-in connection	male, straight
angle of inclination / downward / maximum	0°
mechanical data	
material	
<ul style="list-style-type: none"> of outer shell 	ASA
ambient conditions	
ambient temperature	
<ul style="list-style-type: none"> during operation 	-40 ... +85 °C
<ul style="list-style-type: none"> during storage 	-40 ... +85 °C
<ul style="list-style-type: none"> during transport 	-40 ... +85 °C
protection class IP	IP68/IP69K

shock resistance	according to EN61373, category1, class b (for railway carriage)
design, dimensions and weights	
height	55 mm
diameter	22 mm
net weight	50 g
fastening method	
• wall mounting	No
• roof mounting	No
• directly on the device	Yes
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
product conformity	UL 94-HB
wireless approval	Current national approvals can be found on the Internet under www.siemens.com/funkzulassungen
reference code / 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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	2.4G			5G											
				band 1			band 2			band 3			band 4		
Frequency (MHz)	2400	2450	2500	5150	5200	5240	5260	5300	5350	5470	5600	5725	5745	5800	5850
Peak Gain dBi_External	1.8	2	1.7	1.9	1.8	1.9	1.8	1.8	1.8	2	1.9	1.8	1.7	1.9	1.8