

product type designation



ANT897-4MA antenna

ANT897-4MA mobile wireless antenna for public 3G/4G/5G mobile wireless networks and private 5G networks worldwide; omnidirectional characteristic; 600..5000 MHz antenna gain: 1..2dBi, incl. SMA male connection, radial rotatable with additional joint, IP65 (-20... +65 °C), observe national approvals; for direct installation with SMA connection system scope of delivery: 1x ANT 897-4MA, compact instructions as hard copy German/English

suitability for operation

antenna for 5G/4G/3G/2G networks

radio frequencies

type of wireless network / is supported	5G public networks, 5G private networks, LTE, UMTS, GSM
operating frequency / 1	617 ... 960 MHz
operating frequency / 2	1452 ... 1576 MHz
operating frequency / 3	1710 ... 2690 MHz
operating frequency / 4	3300 ... 4200 MHz
operating frequency / 5	4400 ... 5000 MHz

electrical data

antenna gain compared to spherical radiator	typical maximum gain
<ul style="list-style-type: none"> with linear radiation 	1 dB
<ul style="list-style-type: none"> with linear radiation / in operating frequency area 1 / typical 	2 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 	2 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 dB
impedance	50 Ω
polarization	Linear Vertical
radiation characteristic	omnidirectional
standing wave ratio (VSWR) / maximum	3.5
number of electrical connections / of the antenna	1
type of electrical connection / of the antenna	N-Connector
design of plug-in connection	male, variable 0-90°

mechanical data

material	
<ul style="list-style-type: none"> of outer shell 	PC
color	black

ambient conditions

ambient temperature	
<ul style="list-style-type: none"> during operation 	-20 ... +65 °C
<ul style="list-style-type: none"> during storage 	-30 ... +70 °C
protection class IP	IP65

design, dimensions and weights

width	35 mm
height	160 mm

depth	13 mm
net weight	27 g
fastening method	
• mast mounting	No
• flat roof mounting	No
• 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
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
further information / internet links	
internet link	
• to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
• to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
• to website: Mobile radio national approval	https://www.siemens.com/mobile-approvals
• to website: Industrial communication	https://www.siemens.com/simatic-net
• to web page: SiePortal	https://sieportal.siemens.com/
• to website: Image database	https://www.automation.siemens.com/bilddb
• to website: CAx-Download-Manager	https://www.siemens.com/cax
• to website: Industry Online Support	https://support.industry.siemens.com
security information	
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last modified:

5/24/2025 