Antennas and extension cables

Accessories



Perfect reception with the right antenna

We offer our customers a range of mobile radio and Wi-Fi antennas for professional use. When selecting the right antenna, the reception conditions and the installation options on site should be taken into account.

In the event of unfavourable reception conditions, such as when the device is located inside a shielded building or in a control cabinet, the use of external antennas is recommended. The brackets supplied for various mounting options are particularly practical. Of course, we also offer extension cables for our antennas if required.

Antennas with a magnetic base or a bracket are mainly used for devices that are already installed in an environment with relatively good reception.

Tested by us
Best wireless performance with INSYS products

Flexibility
Many different antenna designs depending on requirements and mounting options

Industrial-standard performance
Wide operating temperature range and reliable quality

External use
IP protection against entry of water or dust

Wide frequency ranges
Mobile radio antennas with worldwide frequency bands, in part already for 5G

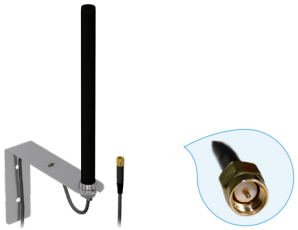
High-quality cable material
Low signal attenuation with connection and extension cables

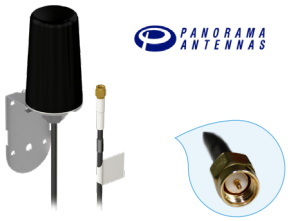
Antennas and extension cables

Technical data

Cellular antennas



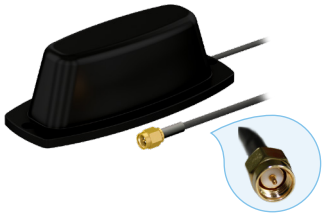


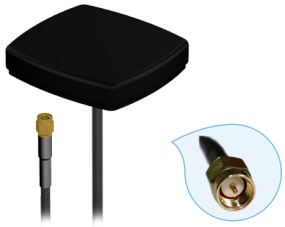


Designation	Magnetic Antenna 4G/3G/2G SMA	Outdoor Wall Antenna 4G/3G/2G SMA	Allround Antenna 5G/4G/3G/2G SMA
Highlights	■ Compact and easy mounting ■ Internal and external use	■ Robust mounting ■ Excellent performance ■ Internal and external use	■ Premium antenna ■ Excellent performance ■ Screw or wall mounting ■ Internal and external use ■ 5G ready
Frequency ranges	698 ... 960 MHz 1710 ... 2170 MHz 2500...2700 MHz (incl.US frequency bands)	699...960 MHz 1710 ... 2690 MHz (incl.US frequency bands)	617 ... 960 MHz 1710 ... 6000 MHz (incl. 5G bands FR1 and US bands)
Gain max.	1.0 dBi (698 ... 960 MHz) 1.1 dBi (1710 ... 2170 MHz) 2.1 dBi (2300 ... 2400 MHz) 1.2 dBi (2500 ... 2700 MHz)	3.4 dBi (698 ... 960 MHz) 2.5 dBi (1710 ...2170 MHz) 1.0 dBi (2500 ... 2700 MHz)	2.0 dBi (617-960 MHz) 3.5 dBi (1710 ... 2700 MHz) 5.0 dBi (3400 ... 3800 MHz) 7.0 dBi (4900 ... 6000 MHz)
Mounting	Adhesive mounting with integrated magnet, antenna requires a conductive ferromagnetic surface, e.g. steel	Wall mounting incl. bracket	Screw mounting (M12 incl. sealing pad, antenna requires a metallic surface) or wall mounting incl. bracket
Dimensions	Height 72 mm, diameter 31 mm	Height 220 mm (325 mm incl. mounting bracket), wall clearance 155 mm	Height 82 mm (164 mm incl. mounting bracket), diameter 48 mm
Operating temperature	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
Protection class	IP65	IP65	IP66
Connecting cable	3 m, type LMR100, SMA connector (m)	5 m, type LL195, SMA connector (m)	5 m, type CS29, SMA connector (m)
Article No.	10019504	10020596	10022961

Antennas and extension cables

Technical data





Designation	Magnetic/screw/adhesive Antenna 4G/3G/2G SMA	Roof Mount Antenna 4G/3G/2G SMA
Highlights	■ Versatile mounting options ■ Focus on European frequency bands	■ Compact design and stable mounting ■ Vandal-proof ■ Internal and external use
Frequency ranges	824 ... 960 MHz 1710 ... 2170 MHz (does not support 700 MHz bands)	698 … 960 MHz 1710 … 2170 MHz 2500 … 2700 MHz (incl. US frequency bands)
Gain max.	0.9 dBi (824 … 960 MHz) 0.7 dBi (1710 … 2170 MHz)	1.8 dBi (698 … 960 MHz) 3.5 dBi (1710 …2170 MHz) 4.4 dBi (2500 … 2700 MHz)
Mounting	Adhesive mounting (incl. magnet and adhesive pad), screws; antenna is surface independent (metal/other)	Screw/adhesive mounting (cable feed-through, incl. nut & adhesive pad); antenna is surface independent (metal/other)
Dimensions	Height 38 mm, length 117 mm, width 49,5 mm	Height 16 mm, length 80 mm, width 76 mm
Operating temperature	-40 … +85 °C	-40 … +85 °C
Protection class	-	IP67
Connecting cable	5 m, type LMR100, SMA connector (m)	3 m, type DACAR 302, SMA connector (m)
Article No.	10017462	10022309

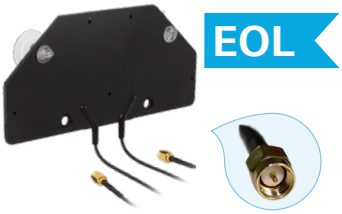
Antennas and extension cables

Technical data

Cellular antennas with 2 connections (MIMO)





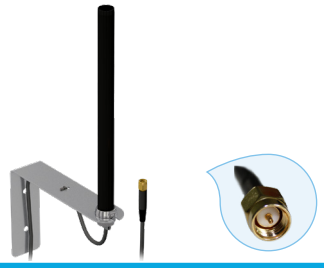


Designation	Magnetic Antenna MIMO 5G/4G/3G/2G SMA	Outdoor Panel Antenna MIMO 5G/4G/3G/2G SMA	Panel Antenna (EOL) 4G/3G/2G MIMO SMA
Highlights	■ Premium antenna for routers with 2 antenna connectors ■ Simple magnetic mounting ■ Internal and external use ■ 5G ready	■ Premium antenna for routers with 2 antenna connectors ■ Excellent performance ■ Internal and external use ■ 5G ready	■ Premium antenna for routers with 2 antenna connectors ■ Easy mounting on smooth surfaces ■ Internal and external use
Frequency ranges	698 … 960 MHz 1710 ... 3800 MHz (incl. 5G frequency bands FR1 and US frequency bands)	698 … 960 MHz 1710 ... 3800MHz (incl. 5G frequency bands FR1 and US frequency bands)	690-960 MHz 1710-2170 MHz 2500-2700 MHz (incl. US frequency bands)
Gain max.	1.5 dBi (668 … 960 MHz) 4.5 dBi (1710 … 2170 MHz) 5.0 dBi (2500 … 3800 MHz)	1.5 dBi (698 … 960 MHz) 4.5 dBi (1710 … 2170 MHz) 5.0 dBi (2200 … 3800 MHz)	2.0 dBi
Mounting	Adhesive mounting with integrated magnets, high adhesive force	Wall / pole mounting or for stand-up positioning (incl. 3 brackets with variable alignment), approx. 30 cm distance to metal surfaces	Mounting by means of mounted suction cups or with plastic screws; no direct mounting on metallic surfaces
Dimensions	Height 61 mm, width 150 mm, depth 45 mm	Heigt 155 mm, width 155 mm, depth 75 mm	Height 84 mm, width 184 mm, depth 8 mm (26 mm suction cups)
Operating temperature	-30 … +70 °C	-30 … +80 °C	-40 … +70 °C
Protection class	IP65	IP65	IP67
Connecting cable	2x 3 m, type RG174, 2x SMA connector (m)	2x 5 m, type CS29 (5 mm diameter), 2x SMA connector (m)	2x 2 m, type RG174, 2x SMA connector (m)
Article No.	10022963	10022962	10020565

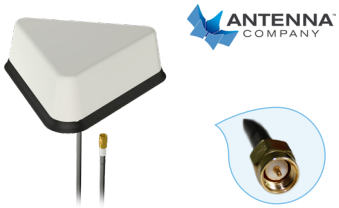
Antennas and extension cables

Technical data

LTE450 antennas







Designation	LTE450 Wall Antenna IP67 5m SMA	LTE450 Wall Antenna 5G/4G/3G/2G IP67 IK10 5m SMA	LTE450 Screw Mount Antenna 5G/4G/3G/2G IP67 IK10 5m SMA
Highlights	■ Specially for LTE450 ■ Stable mounting ■ Indoor & outdoor use	■ High-performance antenna ■ Combination LTE450 and cellular frequencies incl. 5G ■ Stable mounting ■ Indoor & outdoor use ■ Vandalism protection IK10	■ Compact high-performance antenna ■ Combination LTE450 and cellular frequencies incl. 5G ■ Stable mounting ■ Indoor & outdoor use ■ Vandalism protection IK10
Frequency ranges	410 … 496 MHz	410 ... 470 MHz 600 ... 960 MHz 1700 ... 3800 MHz	450 ... 470 MHz 700 ... 960 MHz 1700 ... 4000 MHz
Gain max.	1.5 dBi (410 … 496 MHz)	2.3 dBi (410 ... 470 MHz) 5.0 dBi (650 ... 960 MHz) 7.0 dBi (1700 ... 3800 MHz)	4.0 dBi (450 ... 470 MHz) 5.2 dBi (700 ... 960 MHz) 7.1 dBi (1700 ... 2700 MHz)
Mounting	Wall mounting with steel angle	Wall mounting incl. steel angle or pole mounting incl. pipe clamp or screw mounting on metallic surface	Screw mounting on metallic surfaces, mounting hole 20 mm incl. nut M18
Dimensions	Height 220 mm (325 mm incl. mounting bracket), diameter 70mm, wall clearance 155 mm	Height 255 mm (350 mm incl. mounting bracket), wall clearance 82 mm	Height 50 mm (75 mm incl. mounting bracket), width 148 mm, length 165 mm
Operating temperature	-40 … +85 °C	-40 … +85 °C	-40 … +85 °C
Protection class	IP67	IP67 (environment), IK10 (vandalism)	IP67 (environment), IK10 (vandalism)
Connecting cable	5 m, type LL195, SMA connector (m)	5 m, type LMR-195, SMA connector (m)	5 m, type LMR-195, SMA connector (m)
Article No.	10024225	10024263	10024278

Antennas and extension cables

Technical data

Antenna extension cable



Designation	Antenna Extension Cable 5 m SMA	Antenna Extension Cable 10 m SMA	Antenna Extension Cable 15 m SMA
Highlights	■ Useful in unfavourable installation locations ■ Low signal attenuation		
Frequency range	5 - 6000 MHz		
Dimensions	Diameter 5.4 mm, for length see article designation		
Operating temperature	-20 … +75 °C		
Connectors	1x SMA (f), 1x SMA (m)		
Article No.	Length 5 m: 10015193	Length 10 m: 10018607	Length 15 m: 10000735

Antennas and extension cables

Technical data

Wi-Fi antennas







Designation	Magnetic Antenna WiFi 2.4 GHz rev. SMA	Outdoor Wall Antenna Wi-Fi rev. SMA	Antenna with hinge Wi-Fi 2.4 GHz rev. SMA
Highlights	■ Compact and easy mounting ■ Internal and external use	■ Robust mounting ■ Internal and external use	■ Compact and easy mounting
Frequency ranges	2410 … 2490 MHz	2410 … 2490 MHz 4920 ... 5925 MHz	2400 … 2484 MHz
Gain max.	1.6 dBi	1.5 dBi (2410 … 2490 MHz) 1.7 dBi (4920 … 5925 MHz)	3.0 dBi
Mounting	Adhesive mounting with integrated magnet, antenna requires a conductive ferromagnetic surface, e.g. steel	Wall mounting incl. bracket	Mounting on antenna connector, articulated joint 0 ... 90°, no installation in metallic control cabinets
Dimensions	Height 72 mm, diameter 31 mm	Height: 270 mm (incl. mounting bracket), Wall clearance: 115 mm	Length 137 mm, diameter 13 mm
Operating temperature	-40 … +85 °C	-40 … +85 °C	-30 … +60 °C
Protection class	IP67	IP54	-
Connecting cable	1.5 m, type LMR100, rev. SMA connector (m)	2.5 m, type LMR100, rev. SMA connector (m)	SMA connector (m), no cable
Article No.	10019797	10022599	10000661

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