

LTE Antenna Premium LTE Antenna Premium+

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Description:

The **LTE Antenna Premium** is ideal for difficult reception situations with smart meter gateways (SMGW) in iMSys and on LTE routers. The flat design and wide radiation pattern allow for flexible installation. The antenna is suitable for all major LTE frequency bands as well as for 2G and 3G networks and is equipped with an AA100 type cable.

The **LTE Antenna Premium+** is equipped with a very low-loss AA195 type cable making it perfect for installations in poor reception areas.

The LTE Optimum Antenna is **extremely durable and robust**. It is flame-retardant in accordance with UL 94 V-0, protected against water jets and dust in accordance with IP66 and UV-stable for at least 10 years. This makes the antenna ideal for both indoors and outdoors installations. The antenna is designed for a service life of up to 20 years.

The antenna can be mounted using screws (2-hole mounting), adhesive pads or optional magnets. It can be mounted on metal, wood and plastic surfaces.

Technical details:

Part number	12G-A015-AK-100 (1.5m AA100, FAKRA) 12G-A015-AB-100 (1.5m AA100, SMA) 12G-A030-AK-100 (3m AA100, FAKRA) 12G-A030-AB-100 (3m AA100, SMA) 12G-A015-AK-195 (1.5m AA195, FAKRA) 12G-A015-AB-195 (1.5m AA195, SMA) 12G-A030-AK-195 (3m AA195, FAKRA) 12G-A030-AB-195 (3m AA195, SMA) 12G-A015-AK-30 (1.5m, RG178, FAKRA)
Frequency range	690 - 960 MHz, 1710 - 2690 MHz
supported LTE bands	1-10, 12-14, 17-20, 23, 25-30, 33-41, 44, 53, 65-69, 85, 103, 106
Antenna gain max.	6 dBi
Antenna gain min.	690 - 790 MHz: 2 dBi 790 - 960 MHz: 4 dBi 1710 - 2690 MHz: 4 dBi
Standing wave ratio¹ (VSWR)	< 2.5:1
Impedance	50 Ω
Efficiency¹	> 32 % (690 - 960 MHz) > 50 % (1710 - 2690 MHz)
Polarization	vertical (if mounted vertically)
Antenna type	Wallmount patch
Radiation pattern	omnidirectional (in free space)
Power (max.)	10 W

Cable	low-loss (AA100 type, attenuation < 0.85 dB/m at 2 GHz) low-loss (AA195 type, attenuation < 0.37 dB/m at 900 MHz, < 0.56 dB/m at 2 GHz) RG178 (1.6 dB/m at 1'000 MHz)
Cable length	1.5 m / 3 m
Connector	FAKRA D / SMA
Isolation rating²	> 6000 V
Temperature range	-40 °C to +85 °C
Humidity	max. 95 % RH (non-condensing)
Wind resistance	> 150 km/h
IP class	IP66
IK class	IK09
Flammability	flame-retardant in accordance with UL 94 V-0
UV resistance	min. 10 years
Product lifetime	min. 20 years
Dimensions	232 x 75 x 40 mm
Weight	242 g / 248 g / 265 g / 282 g / 238 g / 289 g / 342 g / 236 g
Conformity	ROHS, CE
Color	grey
HS Code	85177100
Country of origin	People's Republic of China

¹ The standing wave ratio (VSWR) and the efficiency of the antenna depend on the materials used in the vicinity.

² Applies to the cable only. Test of the complete cable between inner conductor and outer sheath in accordance with EN 50395:2005 Sect. 6

Notes:

- > Mounting instructions can be found on our website <https://enqt.de/en> under Support/Downloads.
- > In addition to the variants listed above, the antenna can be manufactured with numerous different connector types, customized cable types and cable lengths. Please contact us for a quote.