

LP70x

Low Profile 2G/3G/4G LTE Multiband Antennas (Patent Pending)

The Smarteq LP70x-series low profile multiband antenna operates simultaneously in the 698-960MHz and 1710-2700 bands with omnidirectional performance. It is designed to be a surface mount that performs well on metallic or non-metallic surfaces. The low profile housing gives a high degree of vandal resistance, making it perfect for M2M and IoT applications where reliable communications is required.



LP701



LP702

FEATURES

- Low profile, ergonomic style with sophisticated engineering
- Easy installations

BENEFITS

- Combined 2G/3G/4G/LTE functionalities in one single housing
- Ground plane independent

MARKETS

- Smart meters
- Tracking devices
- Vending machines
- Charging poles
- Utilities and industrial control system, remote Monitoring
- Other in- and outdoor areas

SPECIFICATIONS

Electrical

Frequency [MHz]		698 – 760	790 – 960	1710 - 2690
VSWR	in Free Space	< 2.5:1	< 2.2:1	< 2.0:1
	On Metal Plane	< 2.5:1	< 2.5:1	< 2.0:1
Antenna Efficiency	In Free Space	75%	80%	75%
	On Metal Plane	65%	80%	70%
Max 3D Gain	In Free Space	1.5	2.2	4.8
	On Metal plane	2.5	5	6
# port		1		
Impedance		50 Ω		
Polarization		Linear		
Pattern Azimuth		Omni-directional		
Max power		20W (ambient temp. of 25°C)		
DC short		Yes		

*Antenna measurement performed with 0.5 meter RG316 cable.

Mechanical

Dimension (LxWxH)		168 x 56 x 42 mm
Weight		~ 135g
Installation	LP701	2 screws/Adhesive
	LP702	Center screw/adhesive. Material thickness $\leq 3.5\text{mm}$, installation hole $\varnothing 16\text{-}19\text{mm}$
Color		Grey, black
Cable		RG316, cable length up on demand
Connector		SMA standard or up on demand
IP class		IP65
Temperature		-40°C~ +85°C
RoHs compliant		Yes
UL Certified		Tested according to EN45545:2013

Smarteq reserves the right to change specifications without prior notice.