

LP70x

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



LP701



LP702

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.

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 3.5mm, installation hole \varnothing 16-19mm
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.