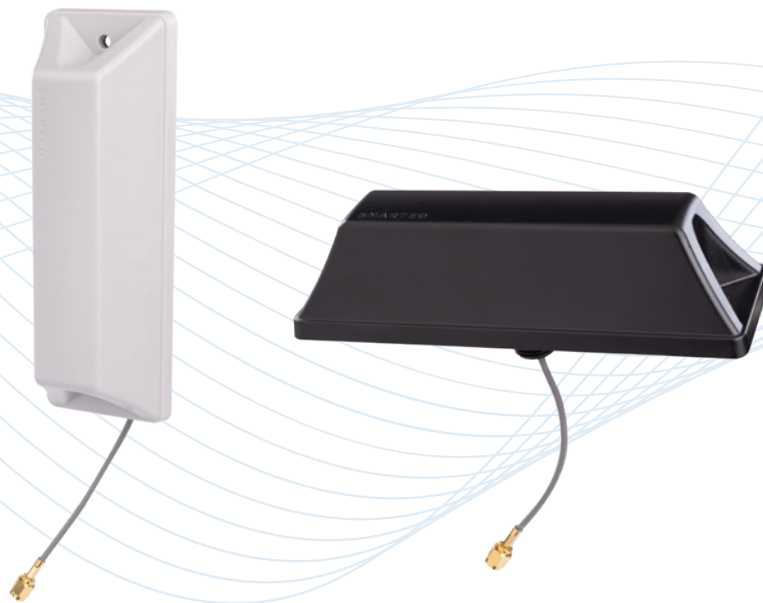


Smarteq™ LP70x-Series Low-Profile Multiband Antenna

Cellular Antennas (5G, LTE, CBRS, 3G, 2G) - Low Profile Whipless

LP701, LP702



Description

Low-profile, multiband whipless antenna that delivers reliable LTE connectivity.

Technologies

- 5G Cellular

Features

- Low profile, ergonomic style with sophisticated engineering
- Easy installations
- 5G cellular
- Ground plane independent



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Cellular Antennas (5G, LTE, CBRS, 3G, 2G) - Low Profile Whipless

The Smarteq™ LP70x-Series is a low-profile multiband antenna that operates simultaneously in the 2G/3G/4G/5G and LTE 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 are required.

Features

- Gain: 1.5 / 2.5dBi
- Color: Black or Gray
- Can be mounted on metal and non conductive surfaces
- LP701: Screw mounted / IP65
- LP702: Hole mounted / IP65, when installed
- DC shorted

Applications

- Smart Metering
- Smart City
- EV-chargers
- Vending machines
- Parking meters

Certifications



SPECIFICATIONS



Smarteq™ LP70x-Series Low-Profile Multiband Antenna

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Standard Configurations

Model	Cable Length (m)	Connector	Housing Color	Installation
LP701				
710379	RG316 1,5 m	SMA-m	Grey	2 screws
710403	RG316 3 m	SMA-m	Grey	2 screws
710411	RG316 1 m	SMA-m	Grey	2 screws
710415	RG316 10m	SMA-m	Grey	2 screws
710453	RG316 3m	MCX-m right angle	Grey	2 screws
710546	RG316 1,5m	MCX-m right angle	Grey	2 screws
710557	RG316 0,2 m	SMA-m	Grey	2 screws
710568	RG316 1,5 m	SMA-m	Grey	2 screws + adhesive
710574	RG316 1,5m	MCX-m right angle	Grey	2 screws + adhesive
710586	RG316 1,5 m	FAKRA-f/Z	Grey	2 screws + adhesive
710706	RG316 3m	FME-f	Grey	2 screws
710757	LL58 2.5m	SMA-m	Grey	2 screws
710758	LL58 5m	SMA-m	Grey	2 screws
LP702				
710380	RG316 2 m	SMA-m	Black	Center screw + adhesive
710407	RG316 0,5 m	SMA-m	Black	Center screw + adhesive
710424	RG316 1 m	SMA-m	Grey	Center screw + adhesive
710451	RG316 1,5m	SMA-m	Black	Center screw + adhesive
710554	RG316 1,5 m	MCX-m right angle	Grey	Center screw + adhesive
710563	RG316 3m	SMA-m	Grey	Center screw + adhesive
710579	RG316 1,5m	SMA-m	Grey	Center screw + adhesive

Several options are available upon request in terms of adhesive, bottom foam, cable plugs, cable type, cable length, connectors etc. Please reach out to us for further information.

Electrical Specifications – RF Antennas (All Models)

Frequency Ranges	VSWR ¹		Max. 3D Gain ¹		Efficiency ¹		Nominal Impedance	Polarization	Radiation Pattern	Max Power	DC Short
	In Free Space	On Metal Plane	In Free Space	On Metal Plane	In Free Space	On Metal Plane					
617-698 MHz	<4.5:1	<4.0:1	0 dBi	1.5 dBi	50%	50%	50Ω	Linear	Omni-directional	10 watts	Yes
698-760 MHz	<2.5:1	<2.5:1	1.5 dBi	2.5 dBi	75%	65%					
790-960 MHz	<2.2:1	<2.2:1	2.2 dBi	5 dBi	80%	80%					
1710-2690 MHz	<2.0:1	<2.0:1	4.8 dBi	6 dBi	75%	70%					
3300-3800 MHz	<2.5:1	<2.5:1	4.5 dBi	6 dBi	60%	60%					

¹ Antenna measurement performed with 0.5m cable

Smarteq™ LP70x-Series Low-Profile Multiband Antenna

Cellular Antennas (5G, LTE, CBRS, 3G, 2G) - Low Profile Whipless

Mechanical and Environmental Specifications (All Models)

Physical

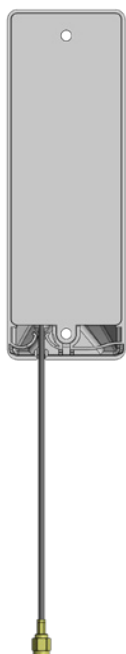
Dimensions (L x W x H)	168 x 56 x 42 mm
Weight	~135g
Color	Grey, black
Installation	LP701 2 screws. Adhesive optional.
	LP702 Center screw/adhesive. Material thickness ≤ 3.5mm, installation hole Ø 16-19mm
Operating / Storage Temperature	-40°C to +85°C
UL Certified	Tested according to EN45545:2013
IP Class	IP65

Mounting Options

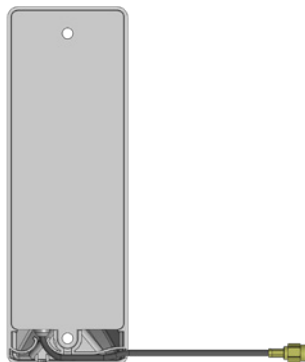
The LP70x antenna family includes two models: LP701 and LP702. Each model is designed with distinct mounting configurations to simplify integration across a wide range of installation environments.

The LP701 features an optimized mechanical design that provides enhanced mounting flexibility, enabling optimal antenna orientation for maximum performance. Configurable cable routing options allow the feed cable to be connected from multiple directions while maintaining consistent and reliable performance, independent of mounting position.

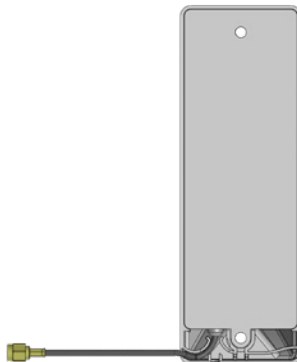
Option 1



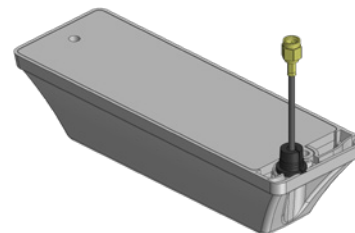
Option 2



Option 3



Option 4



CONTACT US

**For more information about
this product contact your
sales representative or visit
> pctel.com/antenna-products**

Solving Complex Wireless Challenges

PCTEL, an Amphenol company, is a leading global provider of wireless technology solutions, including purpose-built antenna systems and test and measurement products. Trusted by our customers for decades, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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