

Smarteq™ LP80x-Series Low-Profile Antennas

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

LP800, LP801, LP802



Description

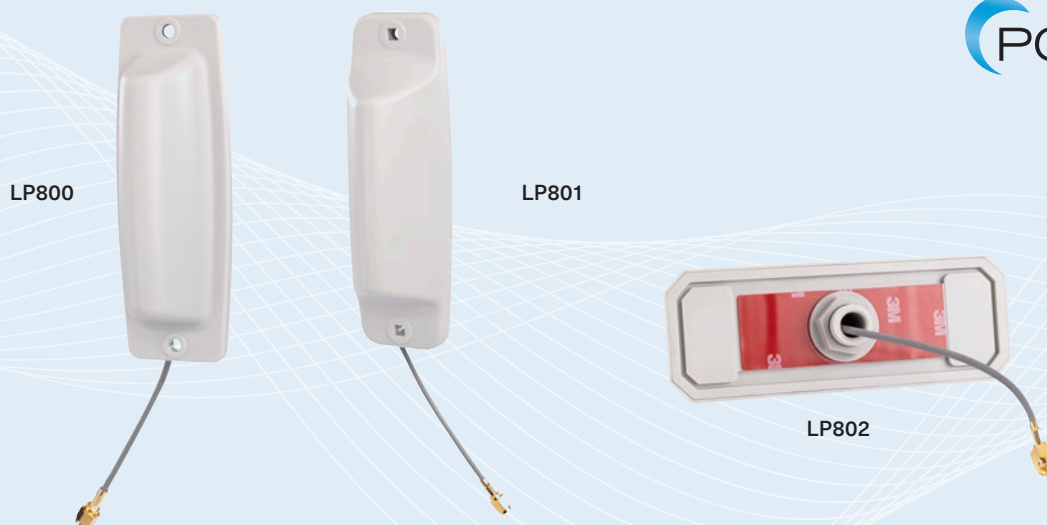
Low-profile, multiband whipless antenna that delivers reliable LTE connectivity.

Technologies

- 2G / 3G / 4G LTE
- NB IoT

Features

- Low profile, ergonomic style with sophisticated engineering
- Easy installations
- Combined 2G/3G/4G/LTE functionalities in one single housing
- Ground plane independent



Smarteq™ LP80x-Series Low-Profile Antennas

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

The Smarteq™ LP80x-Series antennas offer ground-plane independent omnidirectional performance with discreet and durable design. The low-profile housing gives a high degree of vandal resistance making it perfect for smart meters, tracking devices, vending machines and other M2M applications, where it requires reliable communications.

Features

- 790-960MHz / 1710-2690MHz and NB - IoT
- Low profile, ergonomic style with sophisticated engineering
- Easy to install
- Different versions available:
 - LP800 – Screw or adhesive mount
 - LP801 – Screw or adhesive mount
 - LP802 – Center screw mount

Applications

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

Certifications



SPECIFICATIONS



Smarteq™ LP80x-Series Low-Profile Antennas

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

Electrical Specifications – RF Antennas (All Models)

Frequency Ranges		790-960MHz	1710-2170MHz	2400-2690MHz
VSWR*	LP800	< 3.5:1	< 2:1	< 2:1
	LP801	< 4.2:1	< 2:1	< 2:1
	LP802	< 3.5:1	< 2:1	< 2:1
Peak Gain* (Typical)		2.5dBi	3dBi	4dBi
Total Efficiency* (Average)		40%	60%	60%
Port		1		
Polarization		Linear		
Nominal Impedance		50Ω		
Max Power (Ambient temp. 25°C)		10W		
DC Short		Yes		
Ground Plane Independent		Yes		
Electrical Isolation Acc. to SS-EN 61010	LP800	No		
	LP801	Yes		
	LP802	Yes		

Mechanical and Environmental Specifications (All Models)

Physical

Dimensions (L x W x H)	LP800 LP801 LP802	136 x 48 x 42mm 162 x 50 x 45mm 140 x 52 x 45mm
Installation	LP800 LP801 LP802	2 screws / Adhesive 2 screws / Adhesive Center screw / Adhesive; Material thickness ≤ 3.5mm Installation hole Ø 16-19mm
Cable		RG316; Different cable lengths are available upon request
Connector		Different connectors are available upon request
Weight		~100g
Color		Grey, Black on request
Operating / Storage Temperature		-40°C to +85°C
UL Certified		Tested according to EN45545:2013
Compliance		RoHs compliant
IP Class	LP800 LP801 LP802	IP65, when installed IP65 IP65, when installed

* Antenna measured on one Ø1 meter ground plane with 1.5 meter RG316 cable.

CONTACT US

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

Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for 29 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



PCTEL, Inc.

T: +1 630 372 6800 | pctel.com