

Smarteq™ LP450 Wide LTE/5G Multiband Antenna

Single port LTE450 Wideband Antenna in a Low-Profile Housing

710793, 710794, 710795



Description

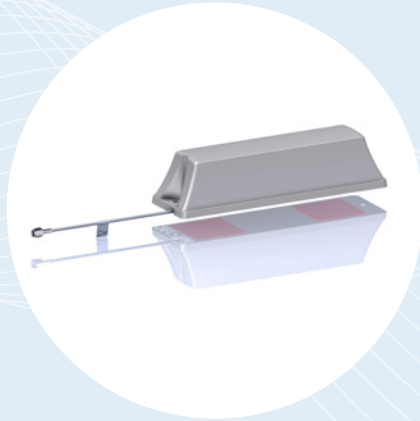
Single port LTE450/5G wideband Antenna in the Smarteq LP rugged enclosure, designed to support a wide range of applications. LP450 Wide is available in two different easy-to-install variants.

Technologies

- LTE 430 - 470 MHz
- Cellular 5G
 - 698 - 960 MHz
 - 1710 - 2690 MHz
 - 3300 - 4200 MHz
 - 4400 - 5000 MHz

Features

- Single Port 430-470 MHz and 5G
- Low profile and rugged enclosure
- IP65
- Cable approved acc ECE-R118
- Designed in Sweden



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The Smarteq™ LP450 Wide is a rugged, low-profile multiband antenna that operates simultaneously in the LTE450 and 5G band. With omnidirectional performance down to 430 MHz, it ensures stable and consistent wireless communication in demanding environments, such as rural and remote areas, for maximum coverage and performance. Typical applications are mission critical communications and utilities/smart grids.

LP450 Wide is available in two different easy-to-install variants.

Features

- Frequency: 430-470MHz + 5G
- Gain: > 2.5 dBi
- Color: Grey or Black
- Can be mounted on metal and non-conductive surfaces
- LP451W: Screw mount, adhesive mount optional
- LP452W: Hole mount

Applications

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

Certifications and Compliances

- CE
- UKCA
- RoHS
- REACH



SPECIFICATIONS



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Standard Configurations

Model	Installation	Cable	Connector	Housing Color
710793 LP451Wide	2 screws	RG316 1.5 m	SMA-m	Grey
710794 LP452Wide	Center screw + adhesive	RG316 1.5 m	SMA-m	Black
710795 LP451Wide	2 screws + adhesive	LL58 3 m	FAKRA f/Z angle	Grey

Several options are available upon request in terms of adhesive installation, 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 ²		Efficiency ²		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					
410 – 430 MHz		<3.5:1		2.5dBi		50%	50Ω	Linear	Omni-directional	10 watts	Yes
450 – 470 MHz	<4.5:1	<2.5:1	-1.5dBi	4dBi	30%	80%					
698 – 790 MHz	<5.5:1	<2.5:1	-1dBi	2.5dBi	45%	60%					
790 – 960 MHz	<4:1	<2.2:1	1dBi	3.5dBi	60%	70%					
1710 – 2690 MHz	<2:1	<2:1	2.5dBi	5.5dBi	70%	70%					
3300 – 4200 MHz	<2:1	<2:1	3dBi	6dBi	65%	65%					
4400 – 5000 MHz	<2:1	<2:1	5dBi	7dBi	55%	55%					

¹ VSWR measured with 1m coaxial cable in free space and on Ø1m ground plane

² Gain and efficiency measured with 20cm coaxial cable in free space and on Ø1 m ground plane

Mechanical and Environmental Specifications (All Models)

Physical

Dimensions (L x W x H)	223 x 63 x 52 mm
Weight	~230g
Color	Grey/Black
Installation	LP451W: 2 screws. Adhesive an option for LP451W, not standard. LP452W: Center screw + adhesive. Material thickness ≤ 3.5mm, installation hole Ø 16-19mm
Operating / Storage Temperature	-40°C to +85°C
IP Class	IP65

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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