

ANTENNAS | LPDA-92

LPDA-92

698 - 3800 MHZ HIGH GAIN DIRECTIONAL LTE ANTENNA

























- Futureproof wideband LTE antenna and Wi-Fi operational frequencies
- · Compatible with 4G, 3G and 2G technologies
- · Improves mobile network subscriber's user experience
- Increased connectivity stability
- Weather- and vandal resistant
- Used in extreme weather environments

Product Overview

This high-gain wideband directional antenna covers all international cellular, mobile and wireless data bands including GSM 900/GSM1800/UMTS/LTE bands as well as extended cellular and WiMAX bands such as European/USA "Digital Dividend bands" and 2.3-2.7GHz licensed and unlicensed data bands. Its configuration is suitable for various wireless communications systems. This antenna is unique in its combination of ultra wide-band operator with a consistent high-gain performance. It has been successfully used in extreme weather environments in Africa and Europe with close to zero failures.

A firm favorite, in any area where operators are having signal challenges. It is ideal for any application using the GSM network (LTE/

Features

- High gain directional antenna
- Easy alignment with main beam around 50 degrees wide
- Broadband covering multiple operational frequencies
- Pole mountable

HSPA/3G/EDGE/GPRS).

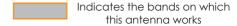
- Lightweight
- Water-resistant
- Tremendous improvement on reliability of wireless data
- Four year track record in all climate conditions from Nordic to desert to tropical

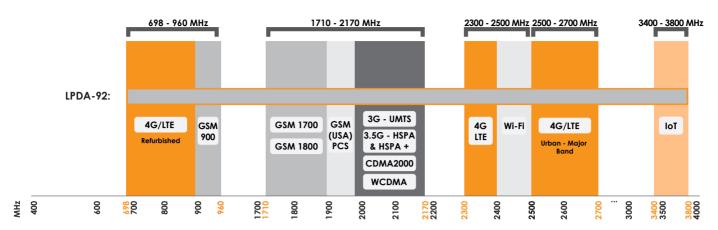
Application areas

- Urban and rural areas
- Antenna of choice for rural areas due to high gain
- Poor data signal reception (indoor or outdoor)
- Slow data transmission connection
- Unstable connection
- Increase system transmission reliability
- LTE fringe areas (close to an LTE area, but just out of reach)
- Network operator flexibility as the antennas is wideband, a new antenna is not needed per network operator - works on most networks



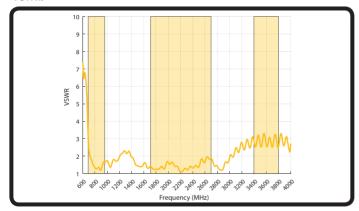
The LPDA-92 is a wide-band antenna that works from 698 - 3800 MHz





Antenna Performance Plots

VSWR:

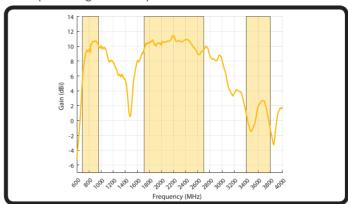


Voltage Standing Wave Ratio (VSWR)

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 1:1.

The LPDA-92 delivers superior performance across the following bands with a VSWR of:

Gain: (excluding cable loss)



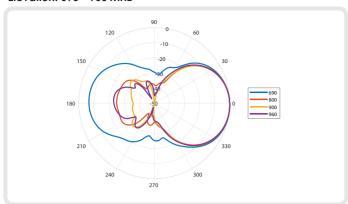
Gain* in dBi

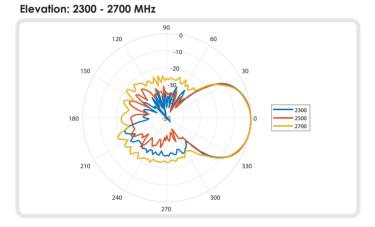
11dBi is the peak gain across all bands from 698 - 3800 MHz

Gain @ 698 - 960 MHz:	11 dBi
Gain @ 1710 - 2700 MHz:	11 dBi
Gain @ 3400 - 3800 MHz:	3 dBi

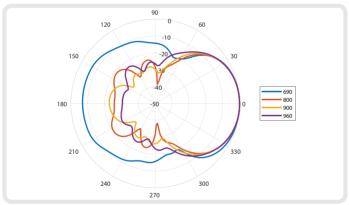
*Antenna gain measured with polarisation aligned standard antenna

Elevation: 690 - 960 MHz

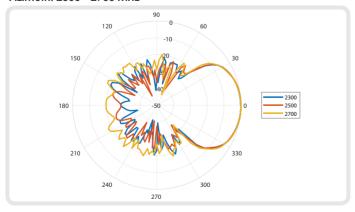




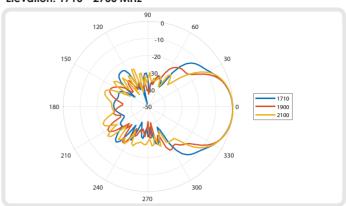
Azimuth: 690 - 960 MHz



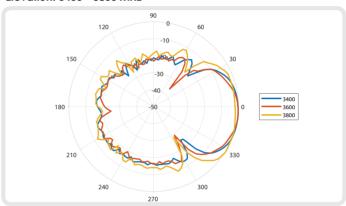
Azimuth: 2300 - 2700 MHz



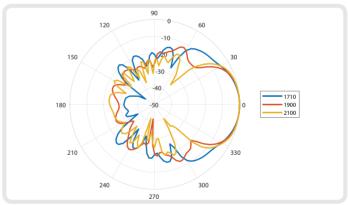
Elevation: 1710 - 2700 MHz



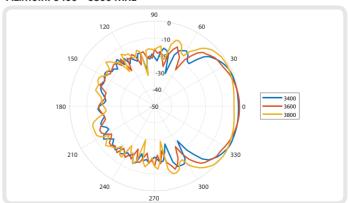
Elevation: 3400 - 3800 MHz



Azimuth: 1710 - 2700 MHz



Azimuth: 3400 - 3800 MHz



Electrical Specifications

698 - 3800 MHz Frequency Bands: Gain (Max): 11 dBi VSWR: < 2:1 @ 698 - 960 MHz

< 2:1 @ 1710 - 2700 MHz < 3.2:1 @ 3400 - 3800 MHz

Feed Power Handling: 10 W Input impedance: 50 Ohm (nominal) Polarisation: Linear

Cable loss: 0.35dB/m @900 MHz

0.53dB/m @ 2000 MHz 0.6dB/m @2500 MHz 0.83dB/m @ 3500 MHz

-40°C to +70°C

DC Short: Yes Cable Length: 7m Cable Type: HDF 195 Connector: SMA (m)

Mechanical Specifications

Product Dimensions (L x W x D): 1100 mm x 180 mm x 60 mm 1120 mm x 210 mm x 60 mm Packaged Dimensions: Weight: 1.63 kg Packaged Weight: 2.02 kg Plastic Materials: Nylon 6 Plastic Colour: Pantone - Black

Frame Materials: Passivated ADC12 Frame Colour: Aluminium grey

Environmental Specifications

Wind Survival: <160 km/h Temperature Range (Operating): -40°C to +70°C **Environmental Conditions:** Outdoor Operating Relative Humidity: Up to 98% Storage Humidity: 5% to 95% - non condensing

Product Box Contents

A-LPDA-0092 Antenna: Mounting Bracket: Econo brackets, U-Bolts and fasteners which are suitable for pole mounting up to 50mm

The cables and connectors are factory mounted to the antenna

Ordering Information

Storage Temperature:

Commercial name: LPDA-92 Order Product Code: A-LPDA-0092 EAN number: 6009693810556

Additional Accessories Available

Extension Cables: Up to 10m HDF 195

Various connectors available Installation poles and brackets available

For more detailed information and availability in your region, visit our web site: www.poynting.tech

Certification Approvals and Standards

Flammability rating: UL 94-HB Water Ingress Protection Ratio/Standard: IP 65 (NEMA 4X) Impact resistance: IK 08 MIL-STD 810F/ASTM B117 Salt Spray: Product Safety: Complies with UL, CE, EN, CSA and IEC standards









RAL - Black

Contact Poynting

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