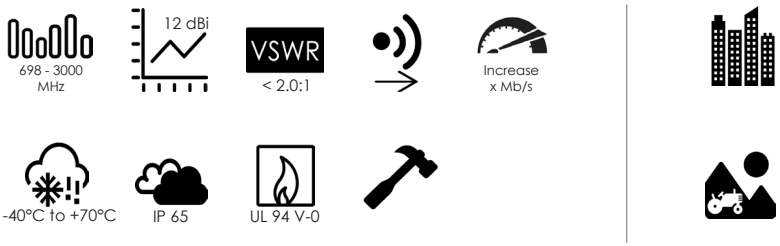
ANTENNAS | LPDA-92

LPDA-92

698 - 3000 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

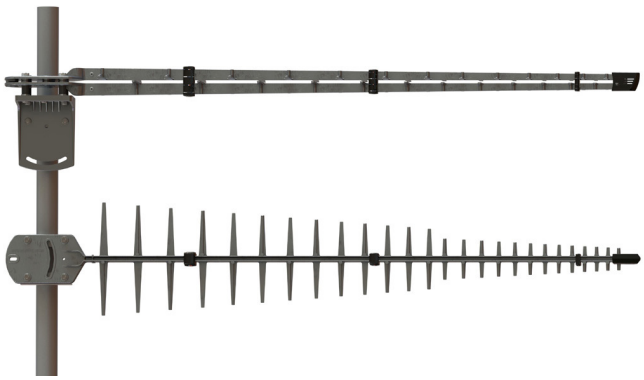
This high-gain wideband directional antenna covers all international cellular, mobile and wireless data bands including GSM 900/ GSM1800/UMTS/LTE bands as well as extended cellular and WiMAX bands such as European/USA "Digital Dividend bands" and 2.3-2.7GHz licensed and unlicensed data bands. Its configuration 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/ HSPA/3G/EDGE/GPRS).

Features

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



2 x LPDA-92 mounted for MiMo LTE
(using 1 x BRKT-30)

Revised: January 2017

Regulatory Compliance: RoHS 2011/65/EU Compliant | ISO 9001:2008
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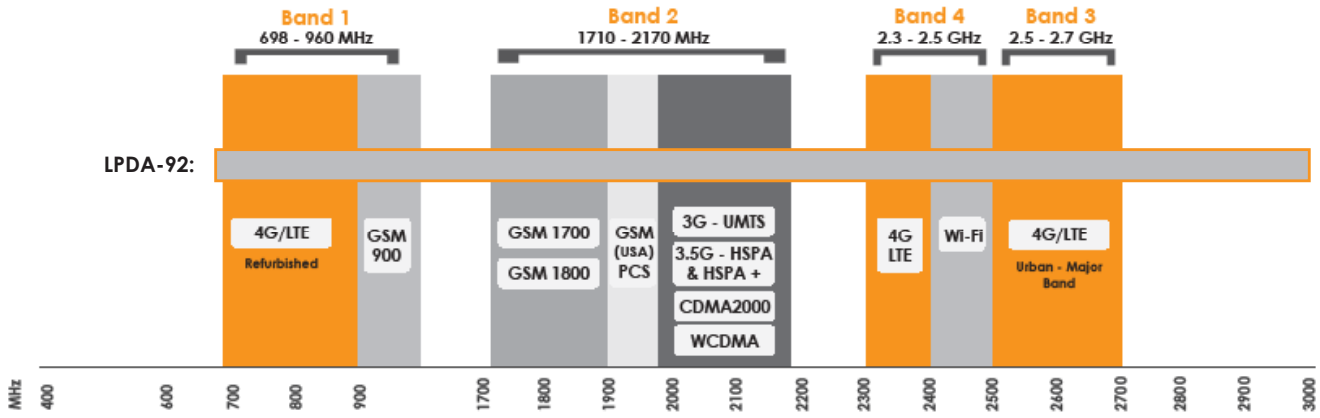
Frequency bands

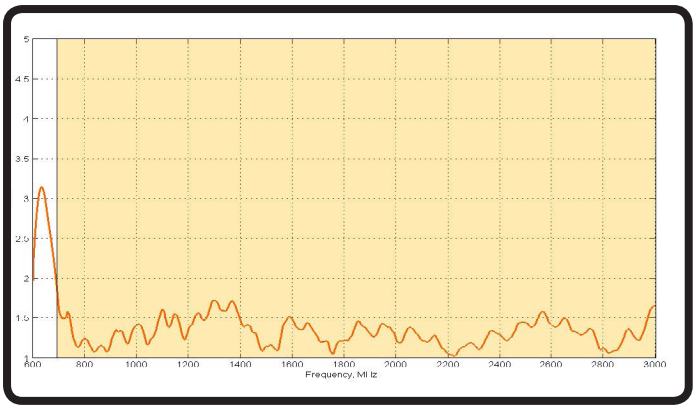
The LPDA-92 is a wide-band antenna that works from 698 - 3000 MHz

Indicates the bands on which this antenna works

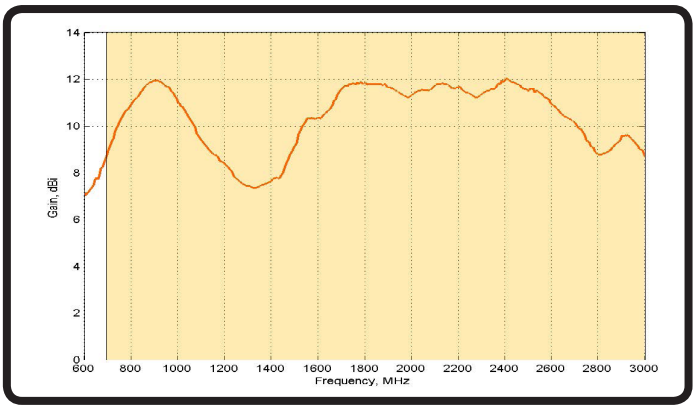


Antenna Performance Plots

VSWR:



Gain: (excluding cable loss)



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 accross all bands with a VSWR of 2.0:1 or better.

Gain* in dBi

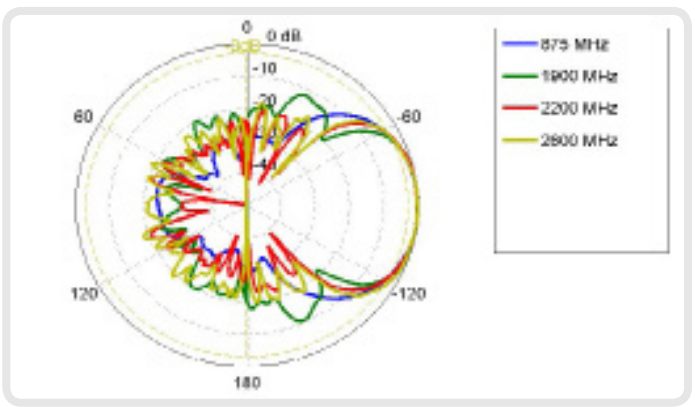
12dBi is the peak gain across all bands from 698 - 2700 MHz

Gain @ 694 - 3000 MHz: 12 dBi

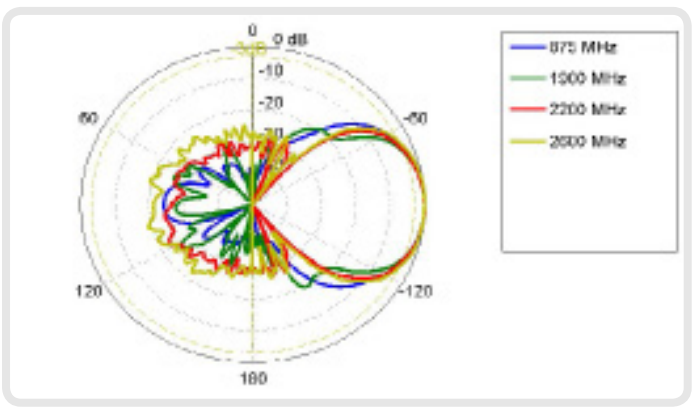
*Antenna gain measured with polarisation aligned standard antenna

Radiation Patterns

Azimuth:



Elevation:



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Electrical Specifications

Frequency Bands:	698 - 3000 MHz
Gain (Max):	12 dBi
VSWR:	< 2.0:1
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
DC Short:	Yes

Mechanical Specifications

Product Dimensions (L x W x D):	1100 mm x 180 mm x 60 mm
Packaged Dimensions:	1120 mm x 210 mm x 60 mm
Weight:	1.63 kg
Packaged Weight:	2.02 kg
Plastic Materials:	Nylon 6
Plastic Colour:	Pantone - Black RAL - 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
Storage Temperature:	-40°C to +70°C

Product Box Contents

Antenna:	A-LPDA-0092
Mounting Bracket:	Econo brackets, U-Bolts and fasteners which are suitable for pole mounting up to 50mm
Cable Length:	7m
Cable Type:	HDF 195
Connector:	SMA (m)

The cables and connectors are factory mounted to the antenna

A-LPDA-0092

Ordering Information

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-V0 EN 13823
Water Ingress Protection Ratio/Standard:	IP 65 (NEMA 4X)
Impact resistance:	IK 08
Salt Spray:	MIL-STD 810F/ASTM B117
Product Safety:	Complies with UL, CE, EN, CSA and IEC standards

Contact Poynting

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