

3.5-3.8GHz, 60 Degree Flat Panel Antenna,
10 dBi, 2-Port, ±45 Slant Polarization



HG3510DP

Features

- 2 x 2 MIMO – Multiple-Input and Multiple-Output
- Dual ±45 slant polarization ports with integral N-female connectors in a single enclosure
- UV-resistant radome and rugged mounting hardware for all-weather operation
- Stable 10 dBi gain in a small-profile 5" x 4" x 1.5" form factor
- Ideal for indoor coverage or outdoor small-cell applications for the CBRS
- band

Applications

- 3.5 GHz Citizens Broadband Radio Service (CBRS) applications
- Wireless LAN systems & IEEE 802.16e applications
- Mobile WiMAX Wireless Internet Provider "cell" sites
- SOFDMA
- Outdoor or indoor point-to-point (PtP) or point-to-multipoint (PtMP) in CBRS band

Description

Superior Performance: The L-COM Brand HG3510DP Flat Panel Antenna combines two ports with dual ±45 slant polarization, high 10 dBi gain with a 60 degree horizontal beamwidth in a single enclosure with one mounting point. It is a professional quality antenna designed primarily for 2x2 MIMO point-to-point or point-to-multipoint applications in the 3.5 GHz Citizens Broadband Radio Service (CBRS) frequency band. This antenna incorporates advanced low PIM, dual polarization technology that allows for the interoperability of two 2x2 radios with multiple transmit and receive path. The small 5" x 4" x 1.5" flat panel limits the wireless infrastructure footprint and provides high gain for stable PtP or PtMP links. It can be used for indoor coverage for private LTE networks or outdoor small-cell applications. This antenna supports LTE deployments in the CBRS 3.5 - 3.8 GHz spectrum.

Rugged and Weatherproof: The 2-port flat panel antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The heavy-duty, powder-coated mounting brackets is polarization adjustable between horizontal/vertical and ±45 slant polarization and allows installation with pipe diameter from 1.2" to 2". This CBRS flat pane antenna is built to withstand speeds of up to 130 mph and survive in a wide-range of challenging environments.

Configuration

Design	Panel
Application Band	CBRS
Band Type	Single
Radiation Pattern	Directional
Polarization	H/V or 45 Deg. Slant
Connector Type	N Female
Number of Ports	2

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.5		3.8	GHz
Input VSWR		1.3:1	1.5:1	
Impedance		50		Ohms
Gain		10		dBi
Front to Back Ratio		20		dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[3.5-3.8GHz, 60 Degree Flat Panel Antenna, 10 dBi, 2-Port, ±45 Slant Polarization HG3510DP](#)

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Electrical Downtilt	0	Degrees
Cross Polarization Ratio	15	dB
Horizontal (Azimuth) HPBW	60	Degrees
Horizontal Squint	±0	Degrees
Vertical (Elevation) HPBW	38	Degrees
Input Power	50	Watts

Mechanical Specifications

Radome Material	UV protected ABS
Size	
Length	4.1 in [104.14 mm]
Width	3.3 in [83.82 mm]
Height	1.3 in [33.02 mm]
Mounting Mast Diameter	0.8 to 2 in [20.32 to 50.80 mm]
Weight	1.1 lbs [498.95 g]
Mechanical Specification Notes: Radome material is UV-resistant ABS.	

Environmental Specifications

Temperature	
Operating Range	-40 to +140 deg C
Wind Survivability	130 MPH [209.21 KPH]
Wind Loading	5 lbs at 130 mph

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

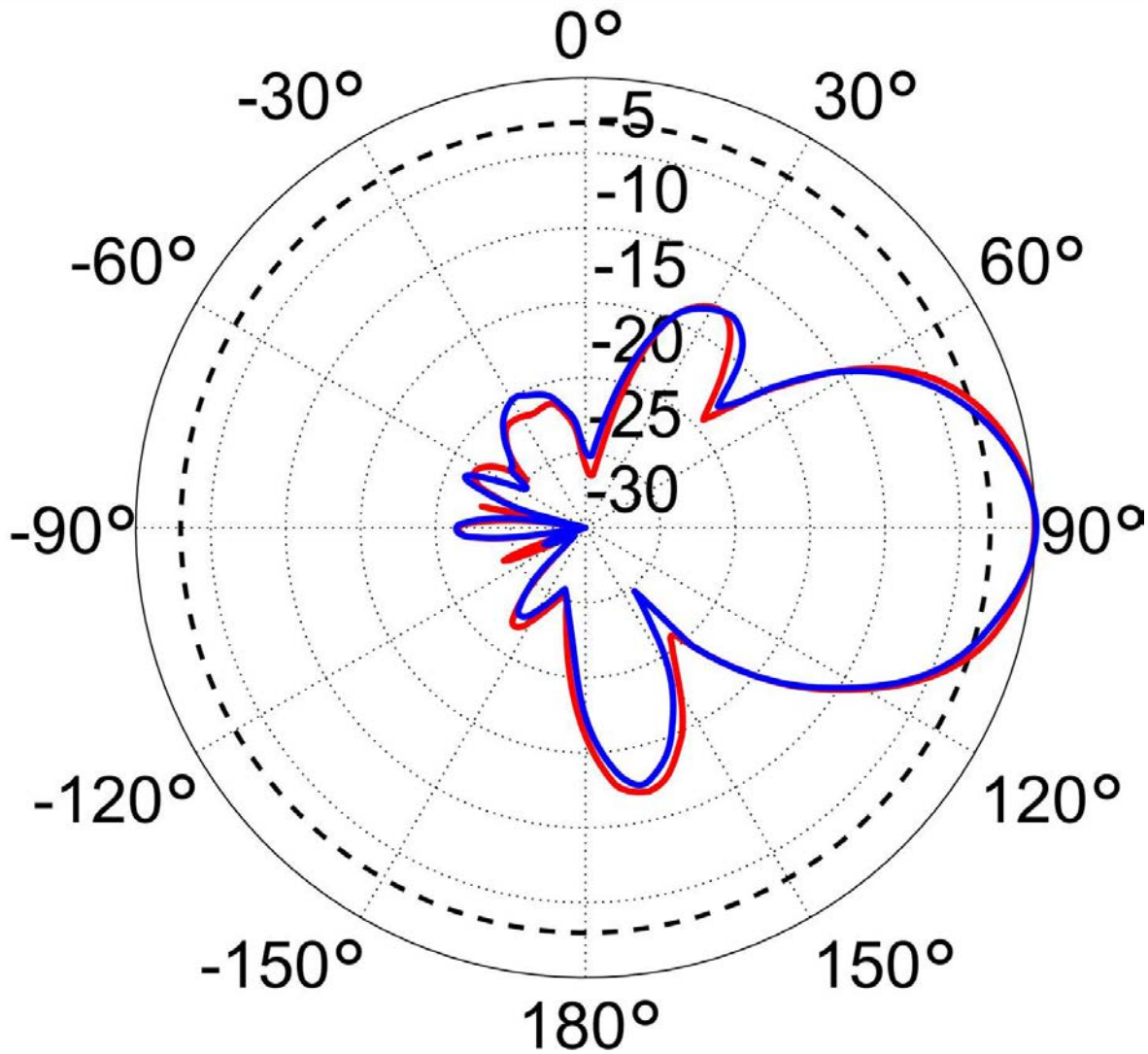
Notes:

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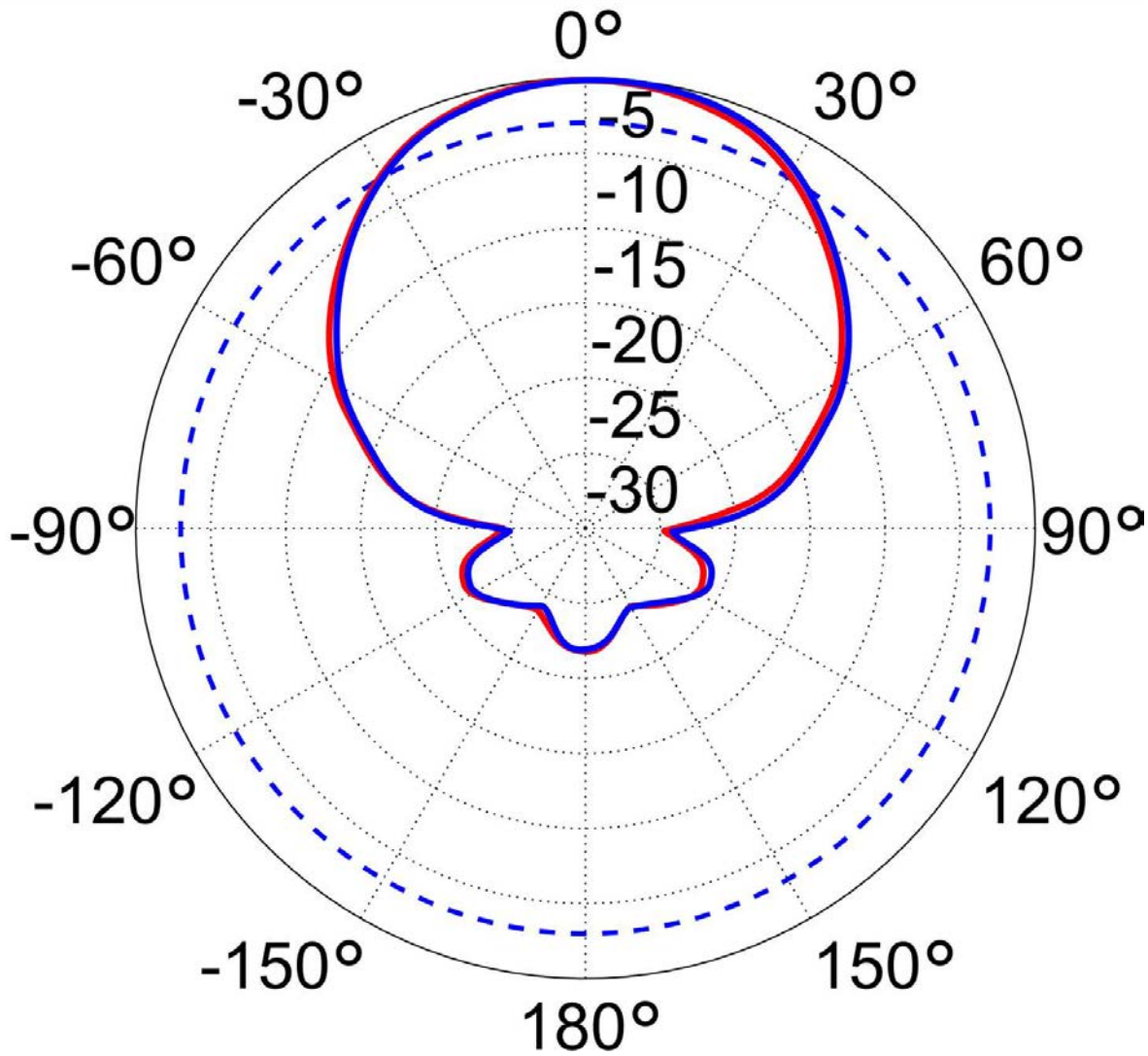
Typical Radiation Pattern



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3.5-3.8GHz, 60 Degree Flat Panel Antenna, 10 dBi, 2-Port, ±45 Slant Polarization from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and

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surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

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L-com CAD Drawing

