

3.3-3.8GHz, 90 Degree Sector Antenna, 17.0 dBi,
4-Port, ±45 Slant Polarization



HG3517DP4-090

Features

- 4 x 4 MIMO – Multiple-Input and Multiple-Output
- Four ±45 slant polarization ports with integral N-female connectors in a single enclosure
- UV-resistant radome and rugged mounting hardware for all-weather operation
- 0° fixed electrical downtilt
- Uniform 360 degree coverage

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
- Point-to-multipoint (PtMP) requiring 90 degree of horizontal coverage
- Ideal for 4-sector frequency-reuse two with LTE equipment

Description

Superior Performance: The L-COM Brand HG3517DP4-090 Sector Panel Antenna combines four ports with dual ±45 slant polarization, high 17 dBi gain with a 90 degree beamwidth in a single enclosure with one mounting point. It is a professional quality antenna designed primarily for 4x4 or 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 one 4x4 radio or two 2x2 radios with multiple transmit and receive path. The sector antenna is ideal for applications requiring 90 degree horizontal coverage over one or more sectors and with 4-sector frequency-reuse two (ABAB) channel planning. This antenna supports LTE deployments in the 3.3 - 3.8 GHz spectrum.

Rugged and Weatherproof: The 4-port sector antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The heavy-duty, powder-coated mounting brackets allows installation with pipe diameter from 1.25” to 3.5” and various degrees of incline for easy alignment. This sector antenna is built to withstand speeds of up to 100 mph and survive in a wide-range of challenging environments.

Configuration

Design	Sector
Application Band	CBRS
Band Type	Single
Radiation Pattern	Directional
Polarization	45 Deg. Slant
Connector Type	N Female
Number of Ports	4

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.3		3.8	GHz
Input VSWR		1.5:1	1.7:1	
Impedance		50		Ohms
Gain		17		dBi
Front to Back Ratio		30		dB

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications:
[3.3-3.8GHz, 90 Degree Sector Antenna, 17.0 dBi, 4-Port, ±45 Slant Polarization HG3517DP4-090](#)

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Electrical Downtilt	0	Degrees
Port to Port Isolation	25	dB
Horizontal (Azimuth) HPBW	90	Degrees
Horizontal Squint	±3	Degrees
Vertical (Elevation) HPBW	6	Degrees
Input Power	50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	3,300-3,550	3,500-3,800				MHz
Gain	16.5	17				dBi
Horizontal HPBW	95	90				Degrees
Horizontal Squint (±)	3	3				Degrees
Vertical HPBW	6.5	6				Degrees
Electrical Downtilt	0	0				Degrees
Cross Polar Ratio HPBW	15	14				dB
Front to Back Ratio	30	30				dB
VSWR Max	1.7:1	1.7:1				

Mechanical Specifications

Radome Material	UV protected PVC
Size	
Radome Diameter	6.3 in [160.02 mm]
Length	27.6 in [701.04 mm]
Width	8.9 in [226.06 mm]
Height	3.5 in [88.9 mm]
Mounting Mast Diameter	1.25 to 3.5 in [31.75 to 88.90 mm]
Weight	11 lbs [4.99 kg]
Mechanical Specification Notes:	
Radome material is UV-resistant PVC.	

Environmental Specifications

Temperature	
Operating Range	-40 to +140 deg C
Wind Survivability	100 MPH [160.93 KPH]
Wind Loading	54 lbs at 100 mph

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

Plotted and Other Data

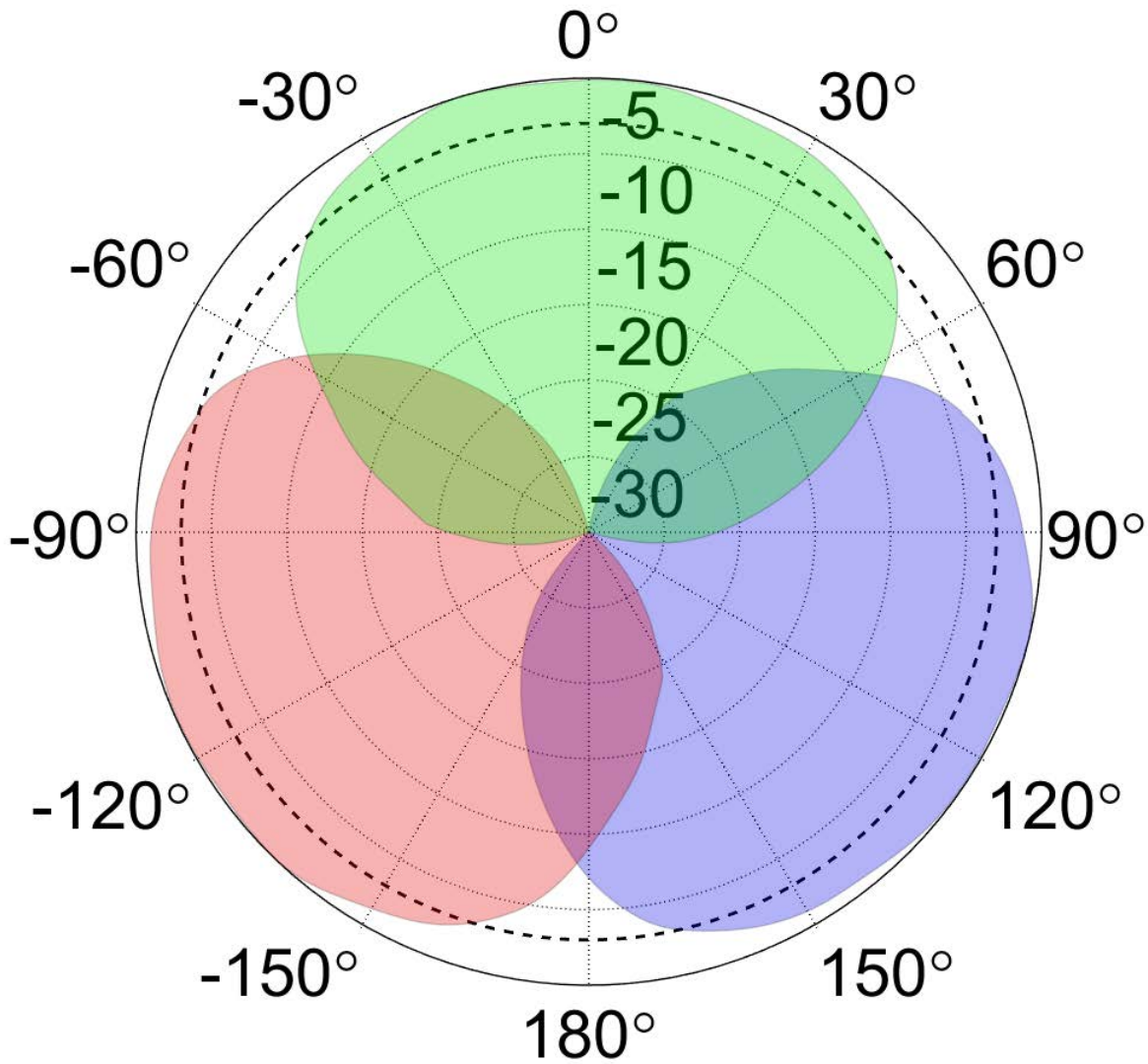
Notes:

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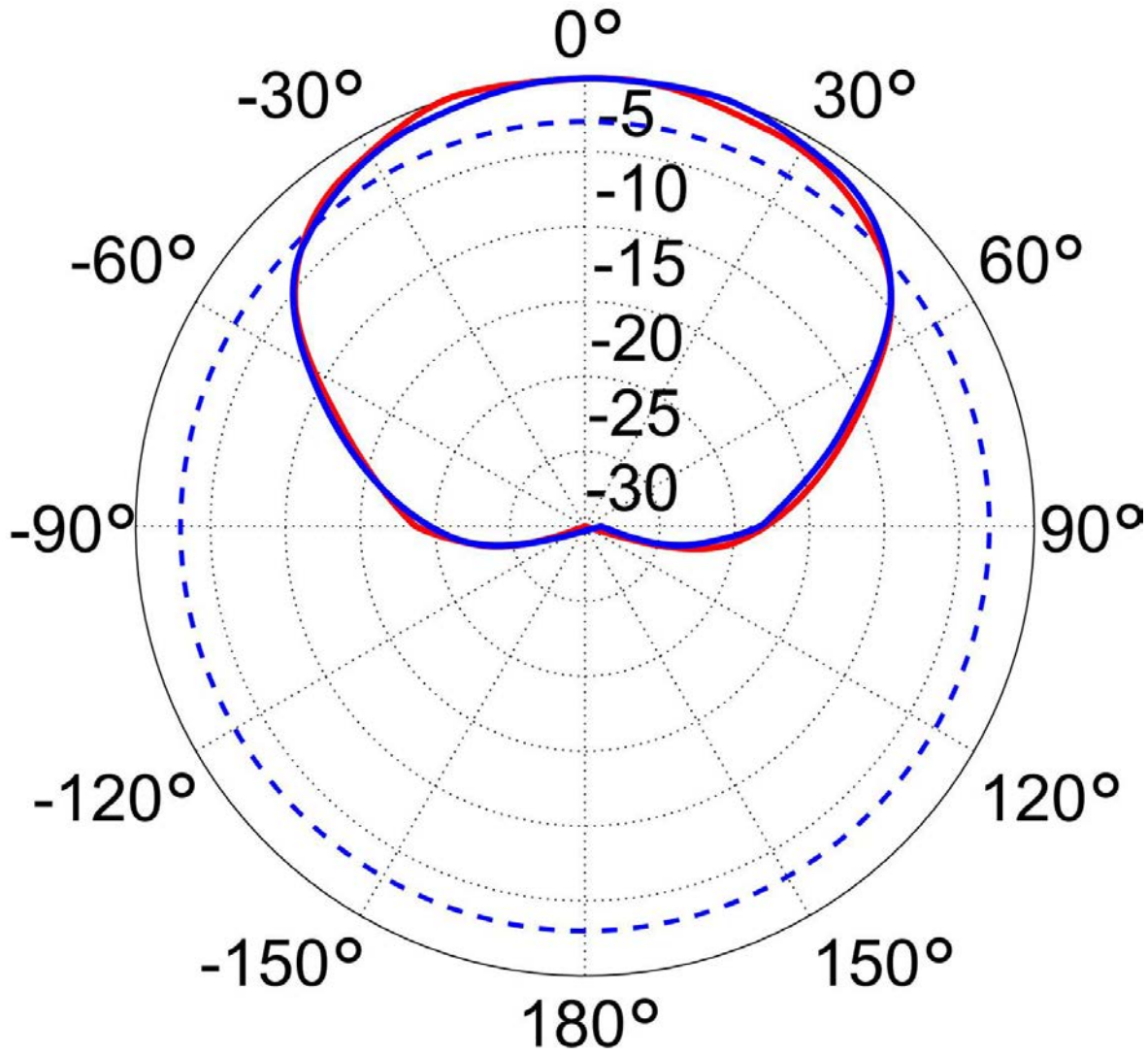
Typical Radiation Pattern



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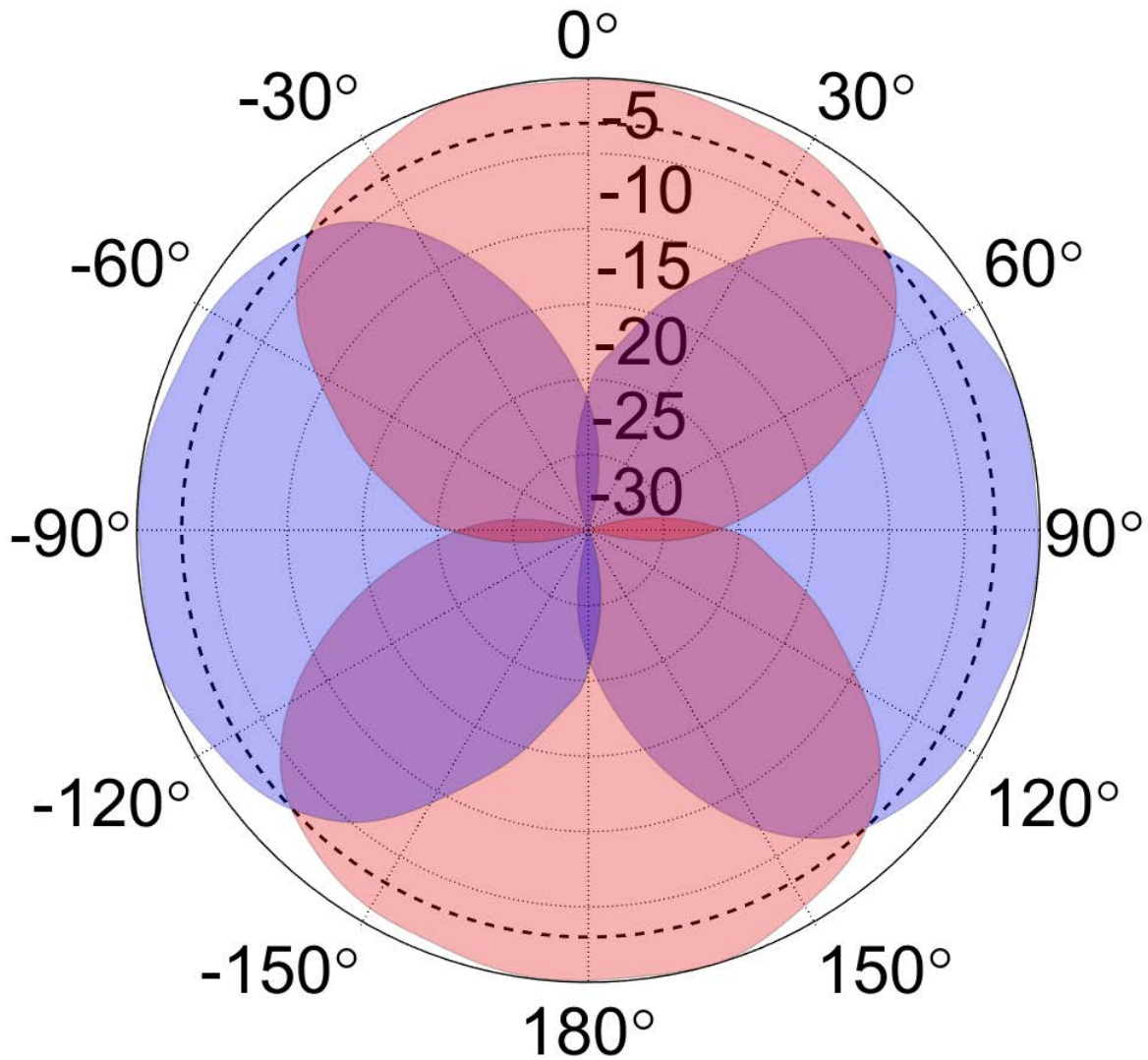
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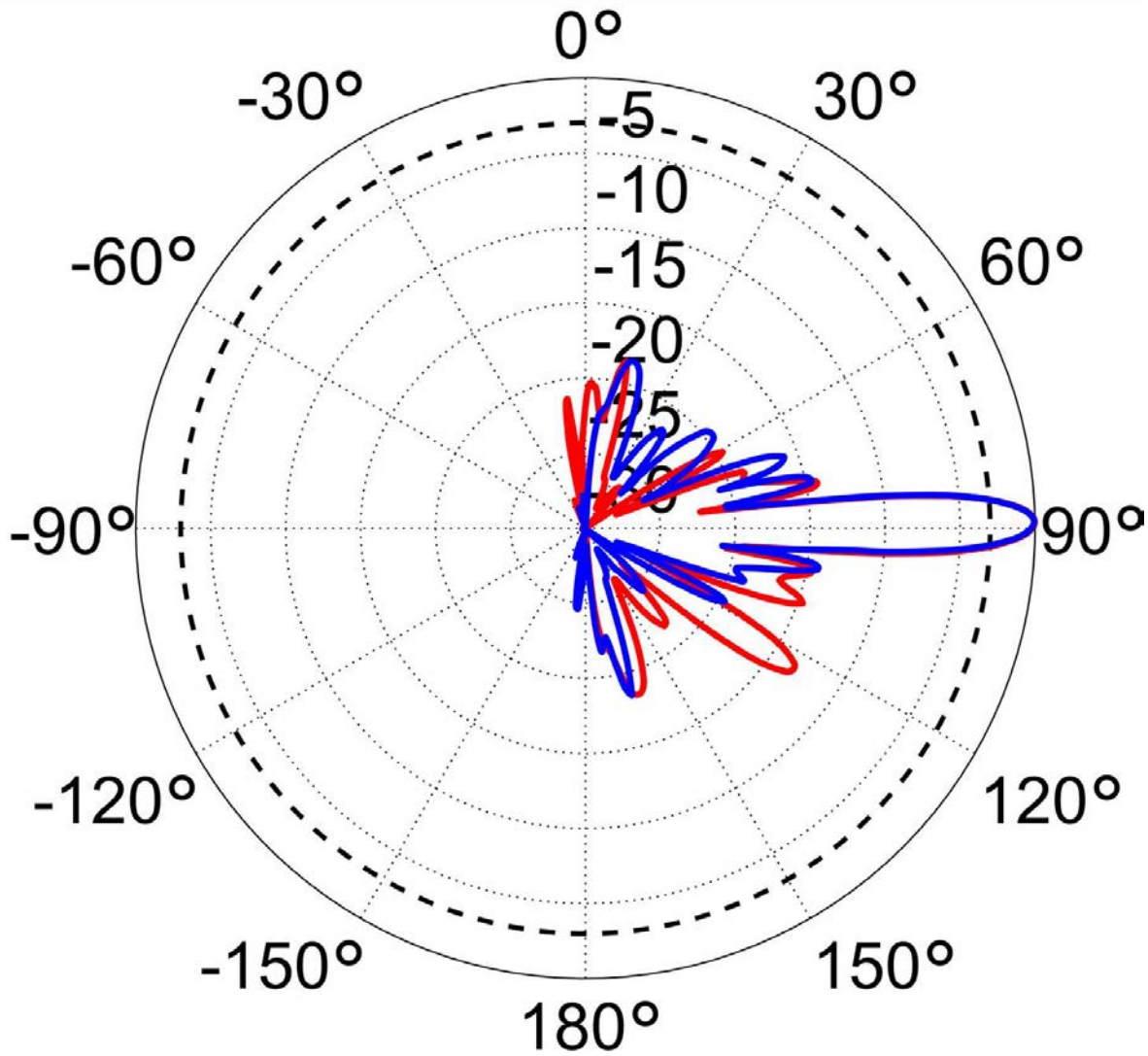
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surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

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L-com CAD Drawing

