

3.5GHz, 15 dBi Spatial Diversity/X Pol Small Cell Sector Antenna, 4-Port, Type N Female Connector



HG3515SDP4-065

Features

- Small cell design with aesthetically pleasing form factor
- 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

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 65 degree of horizontal coverage
- Ideal for 6-sector frequency-reuse two with LTE equipment
- Small cell and urban deployments

Description

The HG3515SDP4-065 Small Cell Sector Panel Antenna from L-com is a high performance, compact, and lightweight antenna. This sector antenna is designed to support LTE deployments in 3.3 to 3.8 GHz spectrum. This L-com antenna features four ports with dual ±45 slant polarization, high 15 dBi gain with a 65 degree beamwidth in a single, small profile enclosure with one mounting point. This antenna supports the 3.5 GHz Citizens Broadband Radio Service (CBRS) frequency band for 4x4 or 2x2 MIMO point-to-multipoint applications. The small cell sector provides optimal signal strength over the target coverage zone which is attributed to its wider elevation beamwidth. The L-COM CBRS high performance sector HG3515SDP4-065 has 4-ports with dual polarization technology that is compatible with one 4x4 radio or two 2x2 radios. The sector antenna’s 60 degree horizontal beamwidth is ideal for 6-sector frequency-reuse two (ABCABC) channel planning. It is rugged and built to last and features a heavy-duty UV-resistant ABS radome and heavy-duty mounting brackets that is built to withstand speeds of up to 100 mph. The antenna’s brackets allows installation with pipe diameter from 0.75” to 3.3” and up to 30 degrees of incline for easy alignment. This CBRS sector antenna ship same day, just like our wide selection of superior quality RF parts. Contact our experienced and friendly application engineers and sales staff for support on antennas or other L-com products.

Configuration

Design	Sector
Application Band	CBRS
Band Type	Single
Radiation Pattern	Directional
Polarization	±45 Deg. Slant
Connector Type	N Female
Number of Ports	4
Lightning Protection	RF connector grounded to reflector and mounting bracket
Housing Material and Plating	Anodized Aluminum

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.3		3.8	GHz
Input VSWR		1.5:1		

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: [3.5GHz, 15 dBi Spatial Diversity/X Pol Small Cell Sector Antenna, 4-Port, Type N Female Connector HG3515SDP4-065](#)

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Impedance	50	Ohms
Electrical Downtilt	0	Degrees
Input Power	50	Watts

Electrical Specification Notes:
Max input power is 50W per port.

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	3,300-3,500	3,500-3,800				MHz
Gain	14.5	15				dBi
Horizontal HPBW	60	63				Degrees
Horizontal Squint (±)	1	1				Degrees
Vertical HPBW	14	12				Degrees
Electrical Downtilt	0	0				Degrees
Cross Polar Ratio HPBW	19	20				dB
Port Isolation	30	30				dB
Front to Back Ratio	30	30				dB
VSWR Max	2:1	1.7:1				
Maximum Input Power	50	50				Watts

Mechanical Specifications

Radome Material	UV Resistant ABS
Housing Material	Anodized Aluminum
Size	
Length	20.5 in [520.7 mm]
Width	11.8 in [299.72 mm]
Height	2 in [50.8 mm]
Mounting Mast Diameter	0.75 to 3.3 in [19.05 to 83.82 mm]
Weight	8 lbs [3.63 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Wind Survivability	100 MPH [160.93 KPH]

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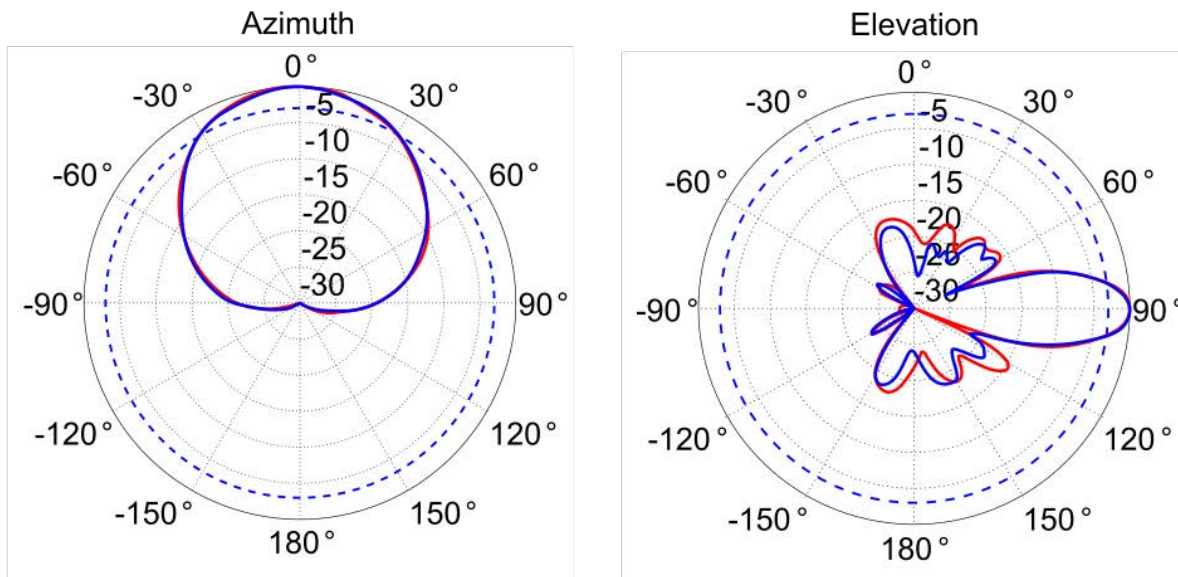
HG3515SDP4-065

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

Plotted and Other Data

Notes:

Typical Radiation Pattern



3.5GHz, 15 dBi Spatial Diversity/X Pol Small Cell Sector Antenna, 4-Port, Type N Female Connector 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 surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com CAD Drawing

