

4.9-5.9 GHz, 20.5dBi 45 Degree Sector Antenna,
2-Port, +/-45 Slant, Type N Female Connector

HG4964-16S-45



Features

- High-performance gain and patterns that are stable over a wide bandwidth
- Interference mitigation with highly suppressed side-lobes and superior front-to-back that allows channel reuse
- Universal radio bracket with quick-release slot/clip design is compatible with many AP radios
- Ultra-wide bandwidths for world-wide markets
- Integrated hoisting hook for added safety and convenient installation
- Null fill improves coverage near the tower
- -5 to 15 Degrees Mechanical Tilt

Applications

- Wireless MIMO LAN systems & IEEE 802.11n applications
- Point-to-multipoint (PtMP) requiring sectorial coverage
- Supports public safety (4.9 GHz), U-NII-1, 2, 3, and 4 (5.15-5.925 GHz), and up to 6.4GHz for world-wide market
- Mobile WiMAX Wireless Internet Provider “cell” sites
- High-density deployments requiring frequency reuse to achieve high capacity and data rates
- Macro base station or small cell deployments

Description

L-Com’s 4.9-5.9 GHz 20.5 dBi 45 Degree Sector Antennas are in stock and ready to ship today. The Wireless Sector Antenna HG4964-16S-45 is a 4.9 GHz to 5.9GHz sector antenna that features 2-ports with plus or minus 45 slant polarization and radiates with a 3 dB beamwidth of 45° and a high gain of 20.5 dBi. This HG4964-16S-45 sector antenna provides high signal strength in its coverage area while maintaining an aesthetically small footprint.

The L-Com 4.9 GHz to 6.4 GHz 2-Port sector antenna features side- and back-lobe suppression technology and provides a front to back over 40 dB and a best-in-class gain. Our 45° high gain 20.5dBi, low side lobes, and superior front to back mitigates interference and enables frequency reuse in noisy areas. The 45 Degree sector antenna is compatible with many 4.9GHz to 5.9GHz single or dual polarization 2 x 2 MIMO radios. L-Com’s HG4964-16S-45 20.5dBi 45 Degree Sector Antennas are in stock and ready to ship today.

The part number HG4964-16S-45 Simplify installation with the integrated hoisting hook and universal radio bracket that is compatible with many popular Cambium, Ubiquiti, Mimosa, and Baicells radios. In the 45° 2-ports, set and forget the rugged brackets which are built to survive high-wind coast or mountainous regions. The plus or minus 45 Slant polarization sector antenna features a heavy-duty UV-resistant ABS radome and anodized aluminum reflector for all-weather operation. Contact the technical experts at L-com’s HG4964-16S-45 4.9-5.9 GHz 20.5dBi 45 Degree Sector Antenna and make your purchase online today.

Configuration

Design	Sector
Band Type	Single
Radiation Pattern	Directional
Polarization	±45 Deg. Slant
Connector Type	N Female
Number of Ports	2
Lightning Protection	RF connector grounded to reflector and mounting bracket
Housing Material and Plating	Anodized aluminum

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications:
[4.9-5.9 GHz, 20.5dBi 45 Degree Sector Antenna, 2-Port, +/-45 Slant, Type N Female Connector HG4964-16S-45](#)

4.9-5.9 GHz, 20.5dBi 45 Degree Sector Antenna,
2-Port, +/-45 Slant, Type N Female Connector



HG4964-16S-45

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.9		5.9	GHz
Input VSWR		1.5:1		
Impedance		50		Ohms
Gain		20		dBi
Electrical Downtilt		0		Degrees
Input Power			100	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4.9 to 5.4	5.4 to 5.9				GHz
Gain	20	20.5				dBi
Horizontal HPBW	45	43				Degrees
Horizontal Squint (±)	1	1				Degrees
Vertical HPBW	6.5	6.2				Degrees
Electrical Downtilt	0	0				Degrees
Cross Polar Ratio HPBW	20	19				dB
Port Isolation	31	35				dB
Front to Back Ratio	40	38				dB
VSWR Max	1.7:1	1.7:1				

Mechanical Specifications

Radome Material	UV resistant PVC
Housing Material	Anodized aluminum
Size	
Length	20 in [508 mm]
Width	5 in [127 mm]
Height	2.5 in [63.5 mm]
Mounting Mast Diameter	0.75 to 4.5 in [19.05 to 114.30 mm]
Weight	12 lbs [5.44 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C

4.9-5.9 GHz, 20.5dBi 45 Degree Sector Antenna,
2-Port, +/-45 Slant, Type N Female Connector

HG4964-16S-45



Mechanical Tilt
Wind Survivability

15 Degrees
125 MPH [201.17 KPH]

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

Plotted and Other Data

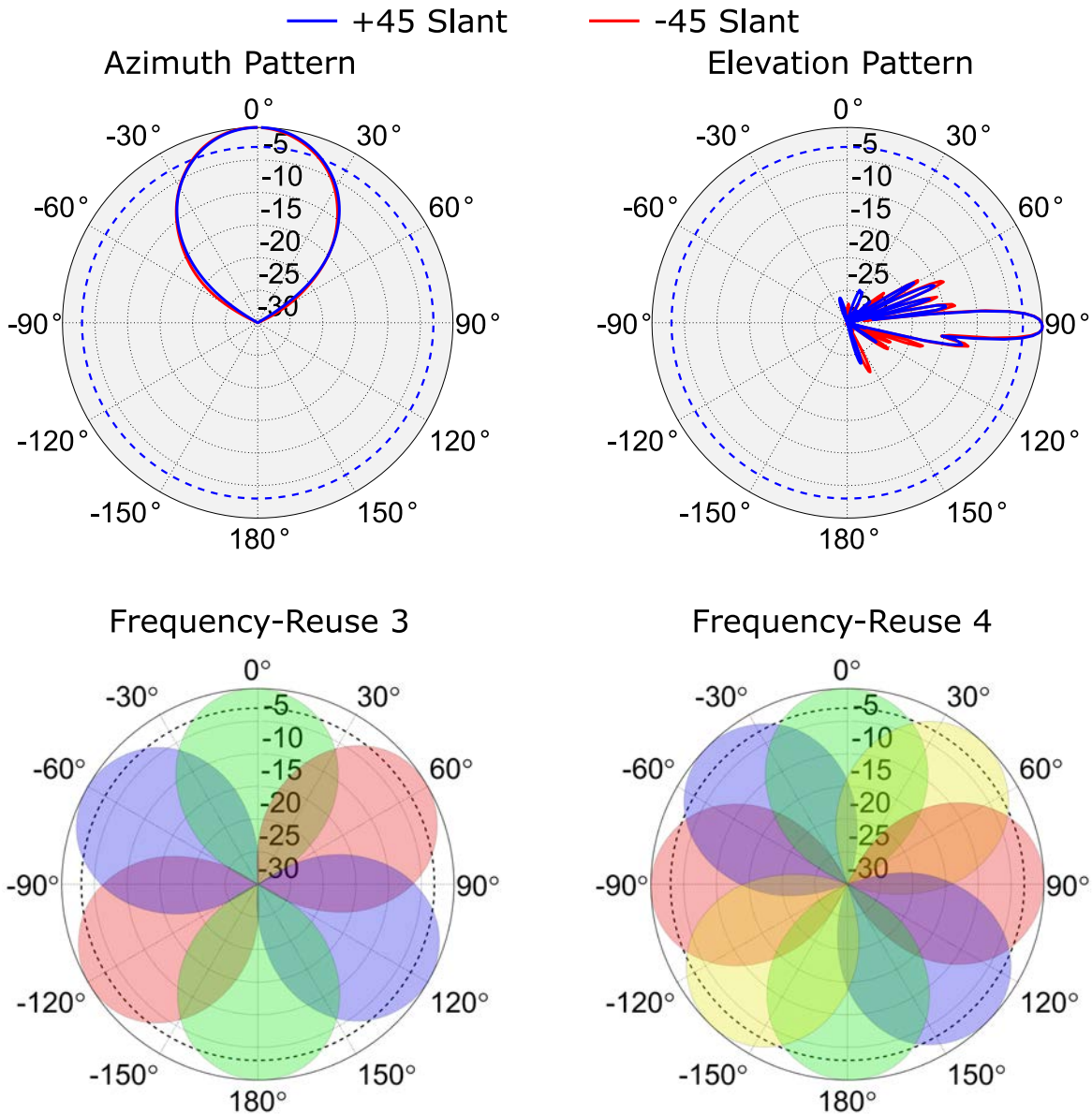
Notes:

4.9-5.9 GHz, 20.5dBi 45 Degree Sector Antenna,
2-Port, +/-45 Slant, Type N Female Connector



HG4964-16S-45

Typical Radiation Pattern



4.9-5.9 GHz, 20.5dBi 45 Degree Sector Antenna,
2-Port, +/-45 Slant, Type N Female Connector

HG4964-16S-45



4.9-5.9 GHz, 20.5dBi 45 Degree Sector Antenna, 2-Port, +/-45 Slant, 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 impliment 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.

4.9-5.9 GHz, 20.5dBi 45 Degree Sector Antenna, 2-Port, +/-45 Slant, Type N Female Connector

L-com CAD Drawing

