860-960 MHz 13dBi Vertical Polarization Panel Antenna

HG913P-120V2

Features

- 20° Down-Tilt Mounting Bracket
- Includes Mast Mounting Hardware
- Integral N-Female Connector
- Vertical Polarized
- All weather operation

Applications

- 900 MHz ISM/GSM
- LPWAN, LoRA, IoT, M2M
- RFID
- SCADA
- ZigBee

Description

The L-com HG913P-120V2 Sector Panel Antenna provides 13 dBi gain with a wide 120° beam-width. It is a professional quality "cell site" antenna designed primarily for service providers in the 900MHz band. It is ideally suited for 900MHz ISM and GSM bands. Typical applications include 900MHz Wireless LAN, SCADA, LPWAN, LoRA, IoT, M2M, and 900MHz Cellular. This antenna features a heavy-duty plastic radome for all-weather operation. The mounting system adjusts from 0 to 18 degrees down tilt. This sector antenna is an ideal choice for Wireless Service Internet Provider "cell" sites since the cell size can be easily determined by adjusting the down-tilt angle. The 120° beam-width is ideal for covering large service areas.

Configuration

Design	Panel
Application Band	RFID, SCADA, LPWAN, ISM
Band Type	Single
Radiation Pattern	Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	860		960	MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		13		dBi
Front to Back Ratio	20			dB
Cross Polarization Ratio		15		
Horizontal (Azimuth) HPBW		120		Degrees
Vertical (Elevation) HPBW		15		Degrees
Input Power			300	Watts

Mechanical Specifications

Radome Material	Polymer

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Size	
Length	49.212 in [125 cm]
Width	11.023 in [279.98 mm]
Height	4.9212 in [125 mm]
Mounting Mast Diameter	1.968 to 4.527 in [49.99 to 114.99 mm]
Weight	55.115 lbs [25 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Mechanical Tilt	18 Degrees
Wind Survivability	134.216 MPH [216 KPH]
Humidity	5 to 95

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Radiation Pattern

Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

Front to Back Ratio @ 180°±30°: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

860-960 MHz 13dBi Vertical Polarization Panel Antenna 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.

URL: https://www.l-com.com/860-960-mhz-13dbi-vertical-polarization-panel-antenna-hg913p-120v2.html

HG913P-120V2 CAD Drawing

860-960 MHz 13dBi Vertical Polarization Panel Antenna