900 MHz 13 dBi 120 Degree Sector Panel Antenna

HG913P-120

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 HyperLink HG913P-120 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	Sector
Application Band	RFID, SCADA, LPWAN, ISM
Band Type	Wide
Radiation Pattern	Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Center Frequency		915		MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain		13		dBi
Input Power			300	W

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency	0.86 to 0.96					GHz
Gain	13					dBi
Horizontal HPBW	120					Degrees
Vertical HPBW	15					Degrees

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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Maximum Input Power	300					Watts

Mechanical Specifications

Radome Material	Polymer
Size	
Length	49.1 in [124.71 cm]
Width	11.2 in [284.48 mm]
Height	5.2 in [132.08 mm]
Mounting Mast Diameter	2 to 4.3 in [50 to 110 mm]
Weight	32 lbs [14.51 kg]

Mechanical Specification Notes:
Radome material is UV-inhibited Polymer.

Environmental Specifications

Temperature	
Operating Range	-40 to +60 deg C
Mechanical Tilt	0 to 18 Degrees (adjustable)
Wind Loading	147 lbs at 100 mph 227 lbs at 125 mph

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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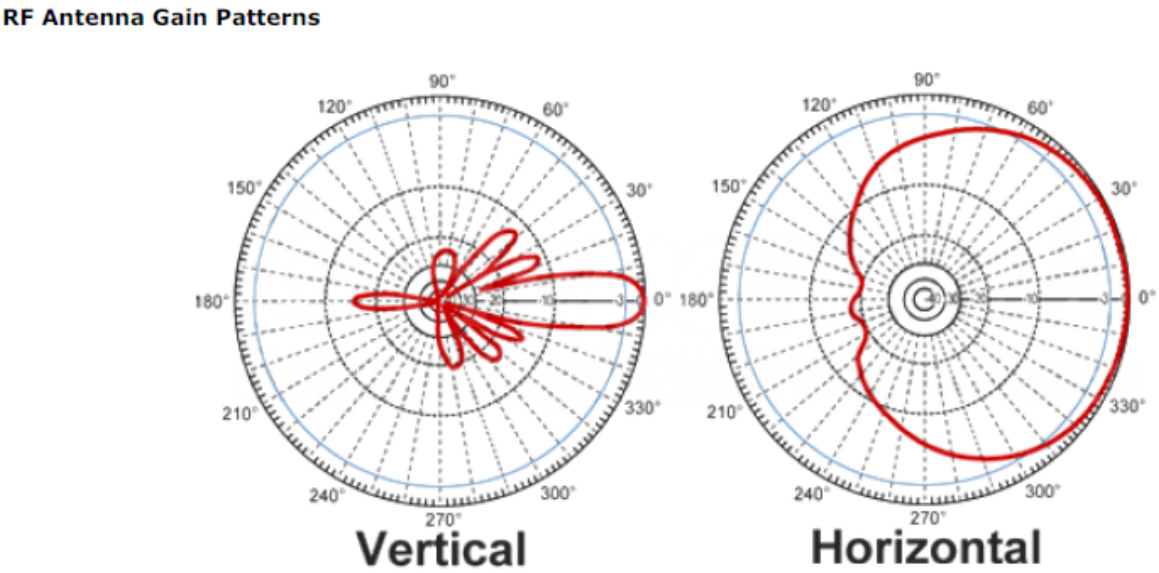
Typical Radiation Pattern



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.

900 MHz 13 dBi 120 Degree Sector 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.

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