

2.4/4.9-5.8 GHz, 8 dBi 4-Element Dual Polarized Flat Panel Antenna, (4) RP-SMA Plug Connectors



HG245808DP-4RSP36

Features

- MIMO-Multiple-Input and Multiple-Output
- Dual Band High Gain Operation
- Dual Polarity Feed System in Single Enclosure
- Four Independent Antennas, Two Vertical and Two Horizontal Elements
- UV-Resistant Radome for All-Weather Operation

Applications

- Homeland Security and Public Safety Band
- Hospitality, Industrial and Municipality
- Supports IEEE 802.11ax (WiFi 6) Applications
- 2.4/4.9-5.8 GHz Indoor/Outdoor
- Wireless LAN
- MIMO Wireless Access Points and Routers

Description

The L-com HG245808DP-4RSP36 Flat Panel Antenna combines four dual band antennas in a single housing. The unit consists of two vertically and two horizontally polarized multi-patch antennas. It is a professional quality antenna designed primarily for MIMO point-to-multipoint and point-to-point applications in the 2.4 GHz and the 4.9-5.8 GHz frequency bands. The unit can be used with APs and Routers with one to four antenna ports.

This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radios to transmit and receive paths. This technology allows for the attenuation of unwanted signals from adjacent channels and/or co-located equipment.

Rugged and Weatherproof

This aesthetically pleasing antenna features a heavy-duty UV-resistant plastic radome ideal for all-weather indoor and outdoor operation. The HG245808DP-4RSP36 antenna is designed for wall mounting. An optional tilt and swivel mast mount kit can be purchased which allows for quick installation at various degrees of up/down tilt for easy alignment.

The HG245808DP-4RSP36 features four separate dual band antenna leads, two for horizontal polarization and two for vertical polarization. Terminated with RP-SMA Plug connectors, additional connector options are also available.

For additional information and complete specifications, click on the [Data Sheet](#) link in the Downloads section.

Configuration

Band Type	Multi
Radiation Pattern	Directional
Polarization	Linear, Vertical
Connector Type	SMA Male Reverse Polarity
Interface 2	SMA Male Reverse Polarity
Interface 3	SMA Male Reverse Polarity
Interface 4	SMA Male Reverse Polarity
Number of Ports	4
Lightning Protection	DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2,400		5,850	MHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		8		dBi
Front to Back Ratio	18			dB

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input Power			50	Watts

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	2.4 to 2.5	4.9 to 5.85				GHz
Gain	8	8				dBi
Horizontal HPBW	63	100				Degrees
Vertical HPBW	62	55				Degrees
Port Isolation	-25	-30				
VSWR Max	2:1	2:1				
Maximum Input Power	50	50				Watts

Mechanical Specifications

Mounting Application

Wall/Mast Mount

Size

Length

7.7 in [195.58 mm]

Width

7.7 in [195.58 mm]

Height

1.4 in [35.56 mm]

Mounting Mast Diameter

30 to 50 in [762.00 to 127.00 mm]

Weight

1.47 lbs [666.78 g]

Environmental Specifications

Temperature

Operating Range

-30 to +60 deg C

Wind Survivability

210 MPH [337.96 KPH]

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.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

2.4/4.9-5.8 GHz, 8 dBi 4-Element Dual Polarized Flat Panel Antenna, (4) RP-SMA Plug Connectors 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/2.4-4.9-5.8-ghz-8-dbi-4-element-dual-polarized-flat-panel-antenna-4-rp-sma-plug-connectors-hg245808dp-4rsp36-p.aspx>

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