

HyperLink Wireless 2.4 GHz 9 dBi Cross Polarized Flat Panel Antenna Model: HG2409XP

Applications

- 2.4 GHz Wireless LAN systems
- IEEE 802.11b/g/n applications
- 2.4 GHz wireless video systems
- Dual diversity / dual antenna MIMO radios
- Public wireless hotspots

Features

- Independent cross polarized (X-Pol) antennas within one enclosure
- Dual polarity feed system - (2) N-Female connectors
- Durable UV-stable, UL flame rated radome with integral mounting flanges
- All weather operation
- Optional tilt-and-swivel pole mount kit available



Description

The Hyperlink HG2409XP is a high performance flat patch antenna designed with two independent cross polarized internal antennas fed via (2) connectors. Suitable for indoor and outdoor applications in the 2.4GHz (2400-2500 MHz) band, the HG2409XP is designed primarily for MIMO point-to-multipoint and point-to-point applications. The unit can be used with APs and Routers with 1 or 2 antenna ports.

Cross Polarized

The HG2409XP features two independent antennas that are cross polarization. This feature doubles the wireless capacity over the same channels. Each antenna is fed via two N-Female ports, one for +45° polarized and one for -45° polarized signals. This feature makes this antenna ideal for polarization diversity systems.

The HG2409XP is lightweight and features a durable aesthetic UV-stable, UL flame rated white plastic radome which can also be painted to match the room or building structure. Integral mounting flanges ease installation. In addition, the optional HGX-PMT06 can be purchased for mounting the HG2409XP to 1.2" to 2" diameter masts. This mounting kit attaches directly to the back of the antenna.



Specifications

Electrical Specifications

Frequency Range	2400-2500
Gain	9 dBi
Horizontal Beam Width	80°
Vertical Beam Width	70°
Polarization	±45°
Impedance	50 Ohm
Front to Back Ratio	25 dB
Max. Input Power	25 Watts
VSWR	≤ 2.0
Lightning Protection	DC Ground

Mechanical Specifications

Connector	N-Female
Weight	1.5 lbs. (0.7 kg)
Dimensions	7.8 x 7.8 x 1.4 in (195 x 195 x 35 mm)
Radome Material	UV-Resistant ASA
Radome Color	White
Operating Temperature	-40° C to 60° C (-40° F to 140° F)
Rated Wind Velocity	210Km/h
Flame Rating	UL 94HB
RoHS Compliant	Yes

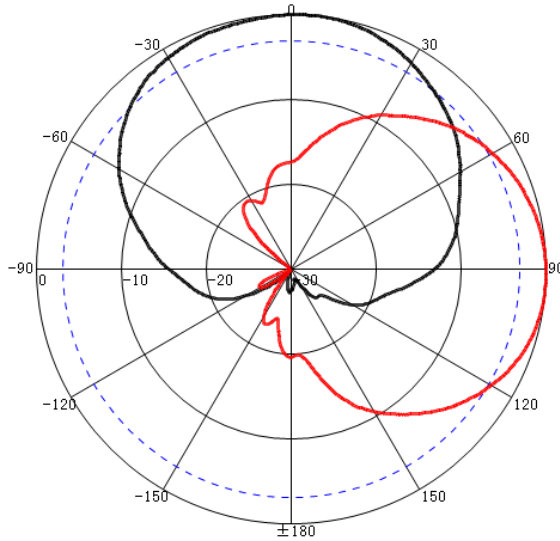
Wind Loading Data

Wind Speed (MPH)	Loading – Front	Loading – Side
100	20 lbs	4 lbs
125	32 lbs	6 lbs

Tilt-and-Swivel Mast Mounting Kit (Sold Separately) – HGX-PMT06



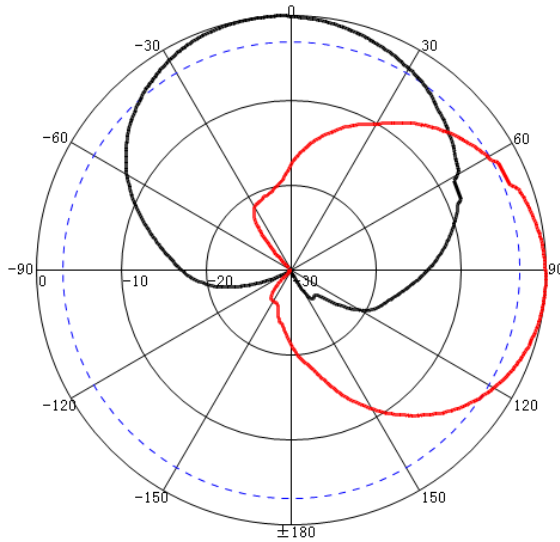
RF Antenna Patterns - +45°



Freq:2500MHz
Date:2013-12-24
Elevation:H-plane
Polar-Across:Main
Polarization:+45°
Max:-18.32dB
HPBW(3dB):82.11°
FBR:27.15dB

Freq:2500MHz
Date:2013-12-24
Elevation:V-plane
Polar-Across:Main
Polarization:+45°
Max:-18.08dB
HPBW(3dB):63.71°
FBR:25.86dB

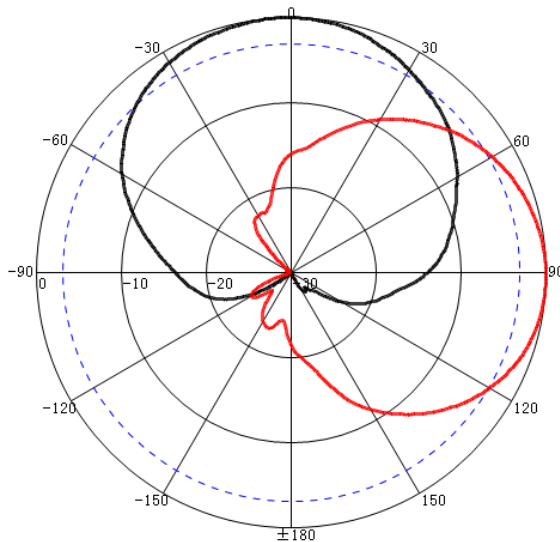
Gain:8.70dBi



Freq:2400MHz
Date:2013-12-24
Elevation:H-plane
Polar-Across:Main
Polarization:+45°
Max:-18.09dB
HPBW(3dB):75.11°
FBR:25.99dB

Freq:2400MHz
Date:2013-12-24
Elevation:V-plane
Polar-Across:Main
Polarization:+45°
Max:-18.05dB
HPBW(3dB):61.86°
FBR:29.51dB

Gain:9.07dBi

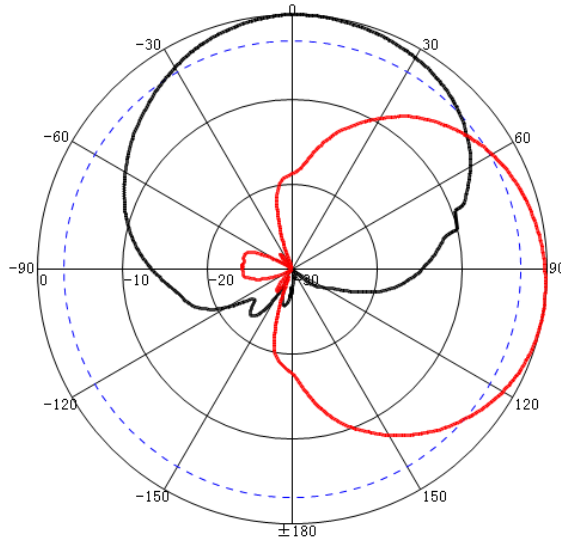


Freq:2450MHz
Date:2013-12-24
Elevation:H-plane
Polar-Across:Main
Polarization:+45°
Max:-18.02dB
HPBW(3dB):76.56°
FBR:27.33dB

Freq:2450MHz
Date:2013-12-24
Elevation:V-plane
Polar-Across:Main
Polarization:+45°
Max:-18.00dB
HPBW(3dB):62.07°
FBR:24.74dB

Gain:8.99dBi

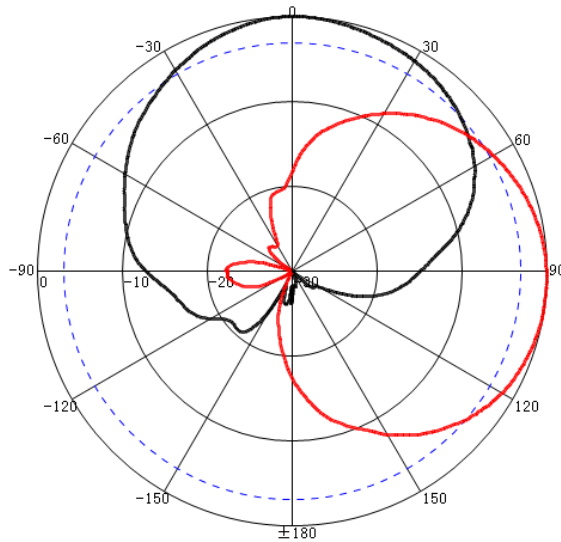
RF Antenna Patterns - -45°



Freq:2400MHz
Date:2013-12-24
Elevation:H-plane
Polar-Across:Main
Polarization:-45°
Max:-18.09dB
HPBW(3dB):79.89°
FBR:25.55dB

Freq:2400MHz
Date:2013-12-24
Elevation:V-plane
Polar-Across:Main
Polarization:-45°
Max:-19.22dB
HPBW(3dB):71.48°
FBR:23.97dB

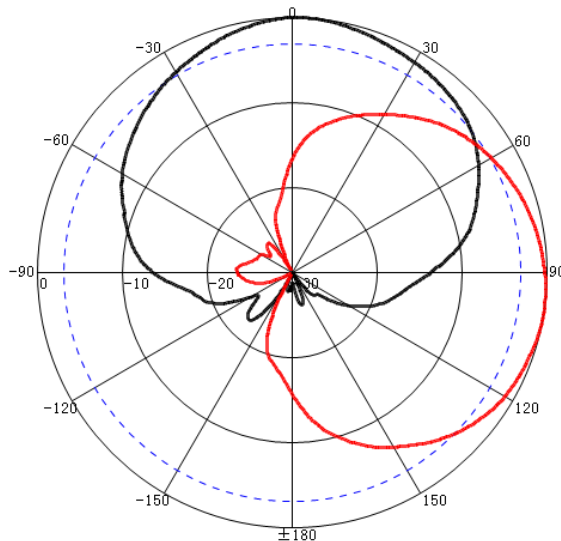
Gain:8.41dBi



Freq:2450MHz
Date:2013-12-24
Elevation:H-plane
Polar-Across:Main
Polarization:-45°
Max:-18.32dB
HPBW(3dB):79.27°
FBR:23.98dB

Freq:2450MHz
Date:2013-12-24
Elevation:V-plane
Polar-Across:Main
Polarization:-45°
Max:-19.86dB
HPBW(3dB):72.36°
FBR:22.16dB

Gain:8.29dBi



Freq:2500MHz
Date:2013-12-24
Elevation:H-plane
Polar-Across:Main
Polarization:-45°
Max:-18.13dB
HPBW(3dB):83.20°
FBR:25.96dB

Freq:2500MHz
Date:2013-12-24
Elevation:V-plane
Polar-Across:Main
Polarization:-45°
Max:-19.46dB
HPBW(3dB):74.37°
FBR:23.41dB

Gain:8.08dBi