

HyperLink Wireless 3.5 GHz 16 dBi Dual Polarized Flat Panel Antenna Model: HG3516DP

Applications

- 3.5 GHz Band Applications
- Wireless LAN systems & IEEE 802.16e Applications
- WiMAX 7 Mobile WiMAX
- Wireless Internet Provider "cell" sites
- SOFDMA

Features

- Vertical and horizontal polarization
- Dual polarity feed system – (2) N-Female connectors
- UV-resistant radome for all-weather operation
- Includes tilt and swivel mast mounting



Description

Superior Performance

The HyperLink HG3516DP Flat Panel Antenna combines vertical and horizontal polarization with high gain in a single enclosure. It is a professional quality antenna designed primarily for MIMO point-to-multipoint and point-to-point applications in the 3.5 GHz frequency bands. The unit can be used with APs and Routers with 1 or 2 antenna ports.

This antenna incorporates advanced dual polarization technology that allows for the interoperability of two radios 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 antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The HG3516DP antenna is supplied with a stainless steel tilt and swivel mast mount kit. This allows quick installation at various degrees of up/down tilt for easy alignment.



Specifications

Mechanical Specifications

Connector	(2) Integral N-Female
Weight (Including bracket)	3.3 lbs. (1.5 kg)
Dimensions	12.4 x 12.4 x 1 in. (315 x315 x 25.4 mm)
Radome Material	Grey ASA
Operating Temperature	-40°C to 85°C (-40°F to 185°F)
Mounting Mast Size (Dia.)	0.75–2.00 in. (19-50 mm)
Rated Wind Velocity	130mph (210km/h)
RoHS Compliant	Yes

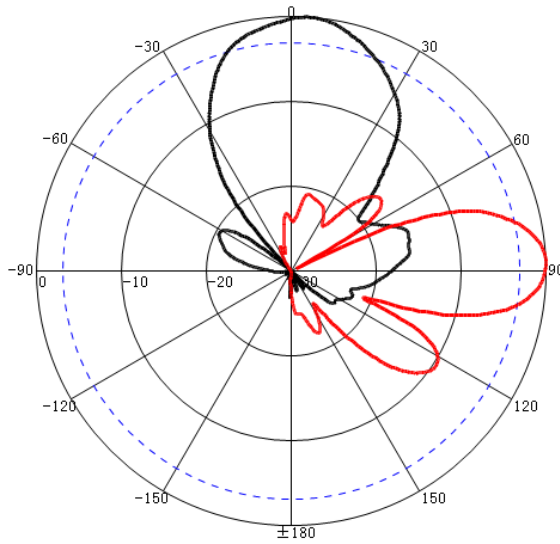
Electrical Specifications

Frequency Range	3300-3800 MHz
Gain	16 dBi
Horizontal Beamwidth	39°
Vertical Beamwidth	20°
Polarization	Vertical and Horizontal
Nominal Impedance	50 Ohm
Max. Input Power	10 watts
VSWR	<1.8

Wind Loading Data

Wind Speed (MPH)	Loading
100	54 lbs.
125	85 lbs.

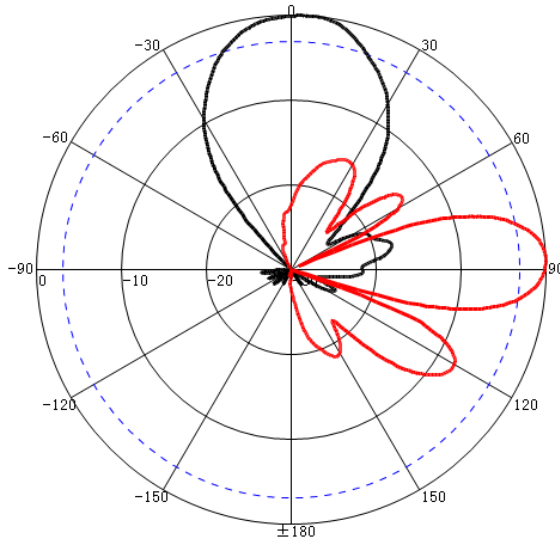
RF Antenna Patterns – H-Pol



Freq:3300MHz
Date:2013-03-15
Elevation:H-plane
Polar-Across:Main
Polarization:Horizontal
Max:-13.92dB
HPBW(3dB):37.40°
FBR:26.78dB

Freq:3300MHz
Date:2013-03-15
Elevation:V-plane
Polar-Across:Main
Polarization:Horizontal
Max:-11.79dB
HPBW(3dB):20.73°
FBR:31.81dB

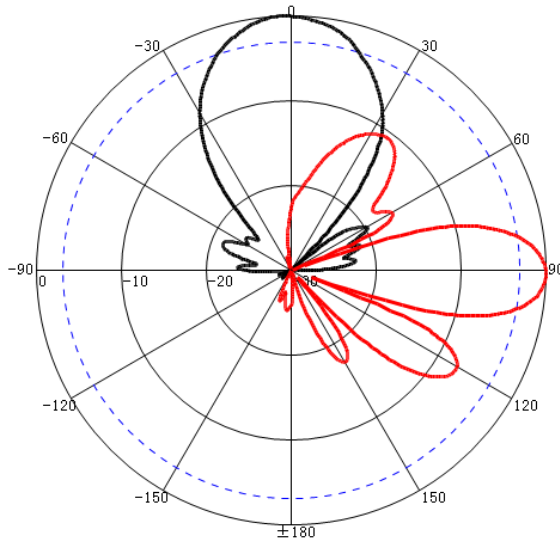
Gain:15.68dBi



Freq:3550MHz
Date:2013-03-15
Elevation:H-plane
Polar-Across:Main
Polarization:Horizontal
Max:-14.85dB
HPBW(3dB):36.21°
FBR:28.10dB

Freq:3550MHz
Date:2013-03-15
Elevation:V-plane
Polar-Across:Main
Polarization:Horizontal
Max:-11.88dB
HPBW(3dB):18.77°
FBR:35.04dB

Gain:15.59dBi

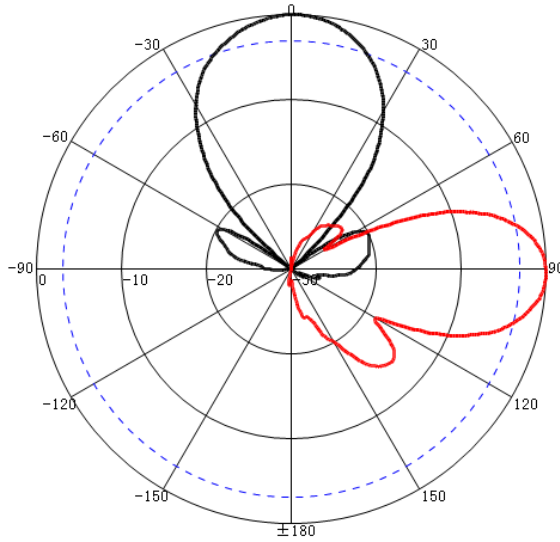


Freq:3800MHz
Date:2013-03-15
Elevation:H-plane
Polar-Across:Main
Polarization:Horizontal
Max:-18.40dB
HPBW(3dB):35.62°
FBR:30.95dB

Freq:3800MHz
Date:2013-03-15
Elevation:V-plane
Polar-Across:Main
Polarization:Horizontal
Max:-13.93dB
HPBW(3dB):18.08°
FBR:33.21dB

Gain:15.40dBi

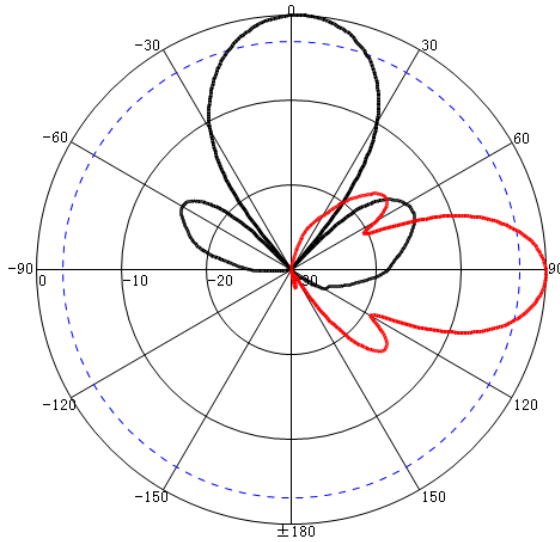
RF Antenna Patterns – V-Pol



Freq:3300MHz
Date:2013-03-15
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-12.67dB
HPBW(3dB):38.41°
FBR:32.83dB

Freq:3300MHz
Date:2013-03-15
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-12.19dB
HPBW(3dB):24.45°
FBR:36.51dB

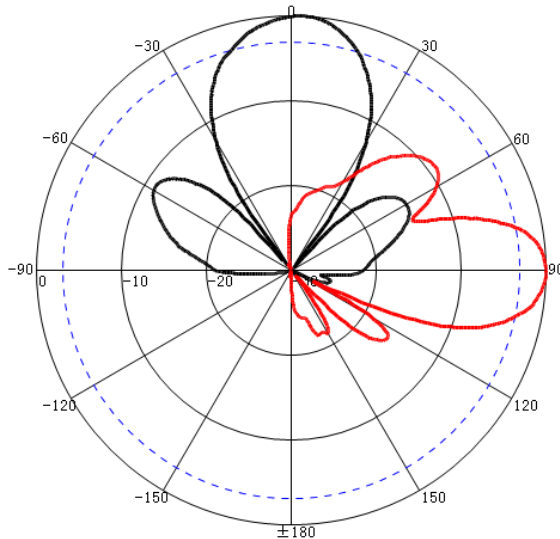
Gain:15.73dBi



Freq:3550MHz
Date:2013-03-15
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-12.82dB
HPBW(3dB):34.52°
FBR:31.65dB

Freq:3550MHz
Date:2013-03-15
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-12.23dB
HPBW(3dB):22.52°
FBR:36.31dB

Gain:16.04dBi



Freq:3800MHz
Date:2013-03-15
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-14.26dB
HPBW(3dB):31.83°
FBR:32.37dB

Freq:3800MHz
Date:2013-03-15
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-14.65dB
HPBW(3dB):22.21°
FBR:30.86dB

Gain:15.49dBi