

## 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

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

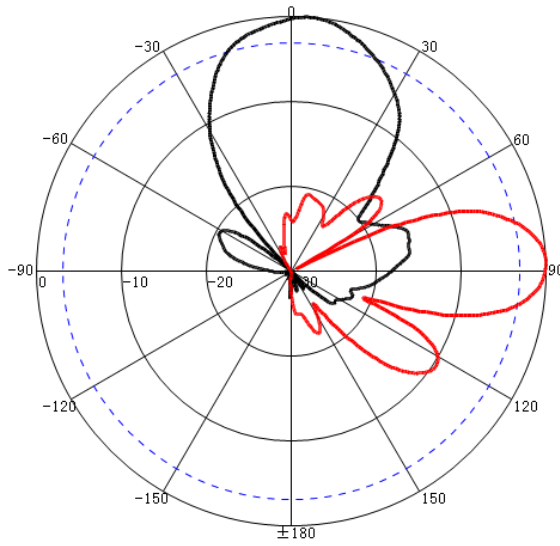
### Electrical Specifications

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

### Wind Loading Data

<b>Wind Speed (MPH)</b>	<b>Loading</b>
100	54 lbs.
125	85 lbs.

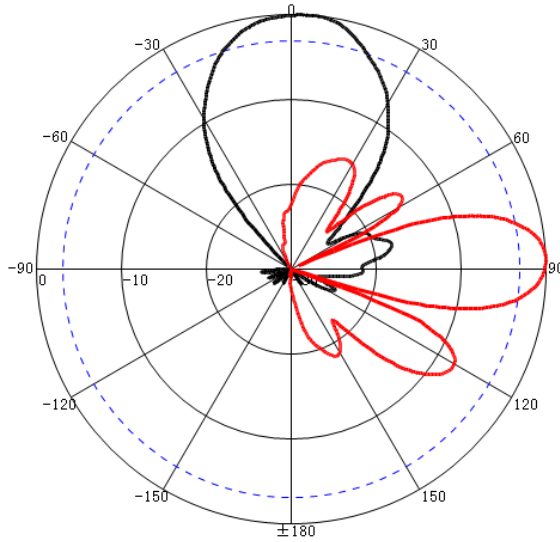
**RF Antenna Patterns – H-Pol**



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

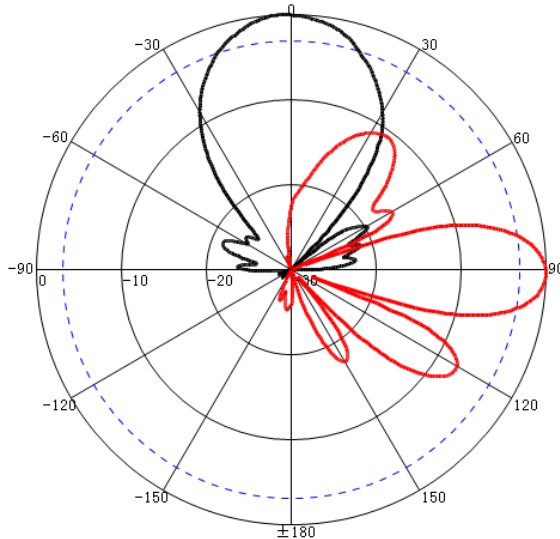
Gain:15.68dBi



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

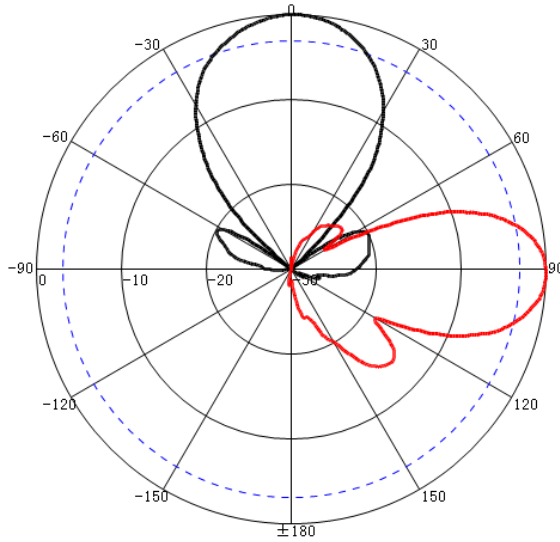


Freq:3800MHz  
Date:2013-03-15  
Elevation:H-plane  
Polar-Across:Main  
Polarization:Horizontal  
Max:-18.40dB  
HPBW(3dB):35.62°  
FBR:30.95dB

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

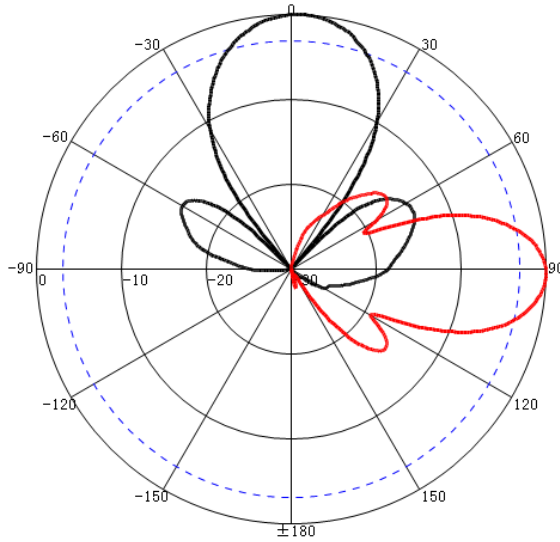
**RF Antenna Patterns – V-Pol**



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

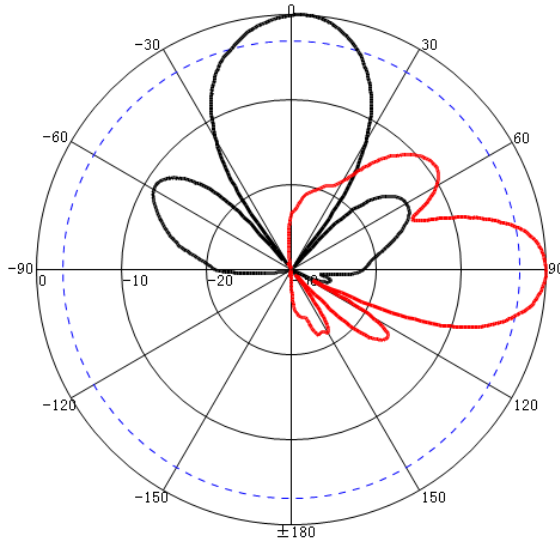
Gain:15.73dBi



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