HyperLink Wireless 2.4/4.9-5.8 GHz Four Element Dual Polarized Flat Panel Antenna
Model: HG2458-08DP-4NF

Features

- Four independent antennas
- MIMO – Multiple-Input and Multiple-Output
- Dual polarity feed system in single enclosure
- Dual band, high gain operation
- Two vertical and two horizontal elements
- UV-resistant radome for all-weather operation

Applications

- 2.4/4.9-5.8 GHz Indoor/Outdoor Wireless LAN systems
- MIMO wireless access points and routers
- Supports IEEE 802.11 a/b/g/n and 802.11ac applications
- Homeland Security and Public Safety Band
- Hospitality, Industrial, Municipality

Description

Superior Performance

The HyperLink HG2458-08DP-4NF 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 HG2458-08DP-4NF 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 HG2458-08DP-4NF features four separate dual band antennas ports, two for horizontal polarization and two for vertical polarization.

Specifications

Electrical Specifications

Frequency Range	2400-2500 / 4900-5850 MHz	
Polarization	Vertical (2x) and Horizontal (2x)	
Gain	8 dBi (Typ.) ±1 dBi	
Horizontal Beamwidth (-3 dBi)	2400-2500 MHz	93°
	4900-5850 MHz	100°
Vertical Beamwidth (-3 dBi)	2400-2500 MHz	62°
	4900-5850 MHz	55°
VSWR	< 2.0	
F/B Ratio	18 dB	
Isolation	< -30 dB	
Max. Input Power	50 watts	
Input Impedance	50 Ohm	

Mechanical Specifications

Connector Interface	(4) Integral N-Female
Mounting Type	Wall/Mast Mount (With optional mast kit)
Radome Material	UV-Resistant ASA
Radome Color	White
Rated Wind Velocity	130mph (210km/h)
Operating Temperature	-40° C to 60° C (-40° F to 140° F)
Dimensions	7.8 x 7.8 x 1.4 in. (195 x 195 x 35 mm)
Weight	1.4 lbs (0.65 kg)
RoHS Compliant	Yes
IP Rating	IP66

Wind Loading Data

Wind Speed (MPH)	Loading
100	20 lbs.
125	32 lbs.

Horizontal Polarization
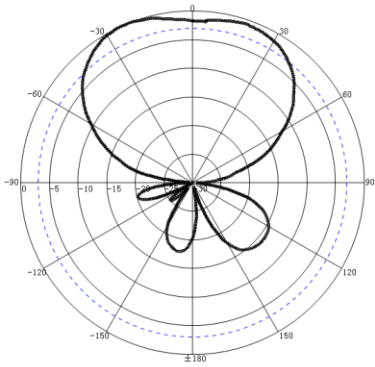
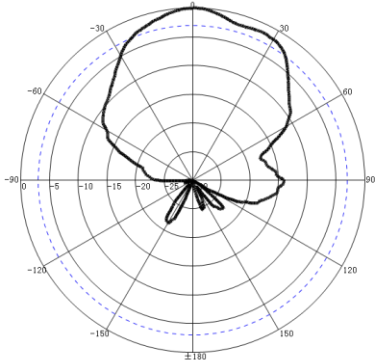**H-Plane: 2400 MHz**
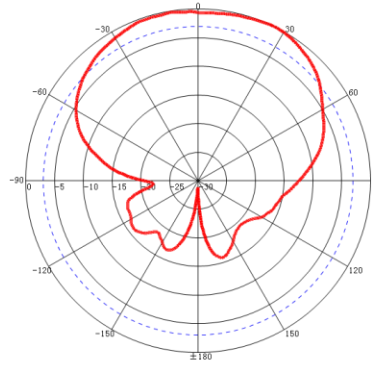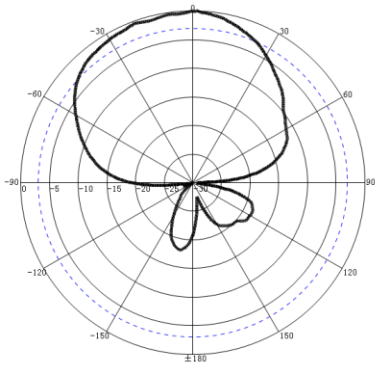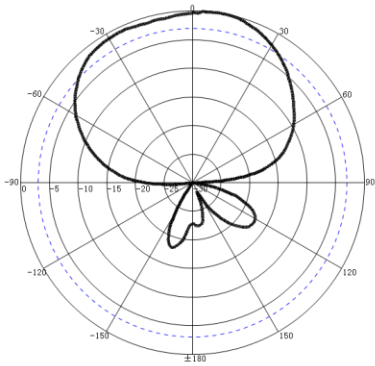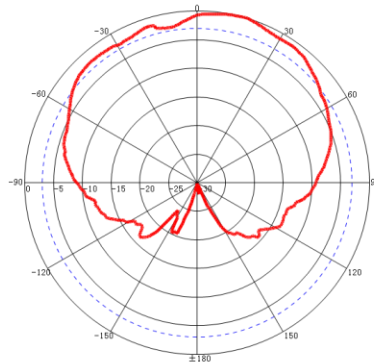

V-Plane: 2400 MHz
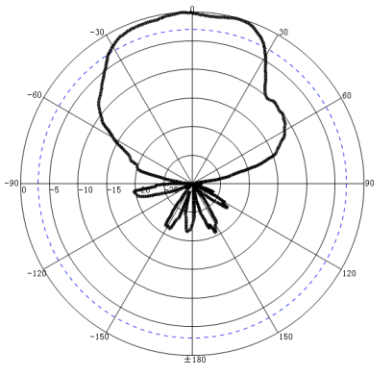

H-Plane: 2450 MHz

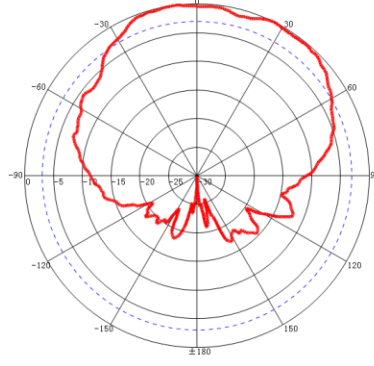
V-Plane: 2450 MHz
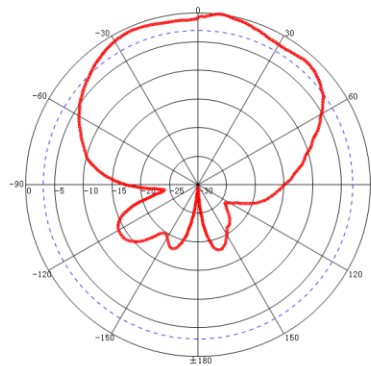
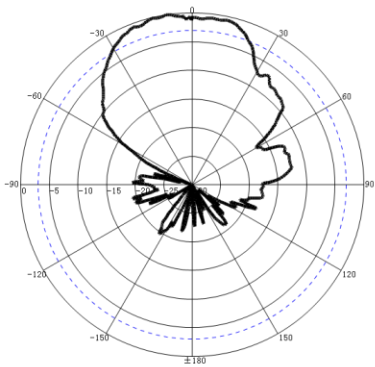**H-Plane: 2500 MHz**

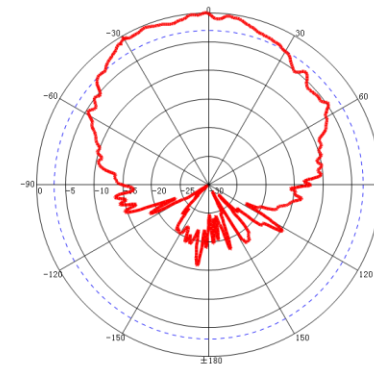**V-Plane: 2500 MHz**

H-Plane: 4900 MHz

V-Plane: 4900 MHz

H-Plane: 5400 MHz

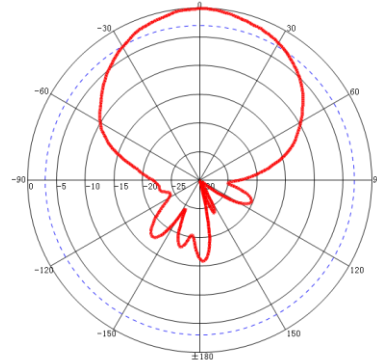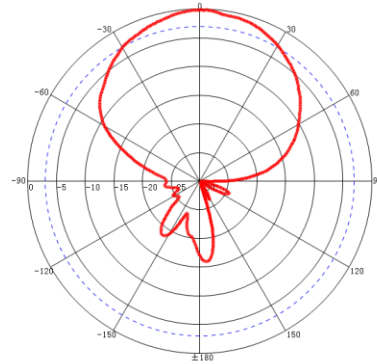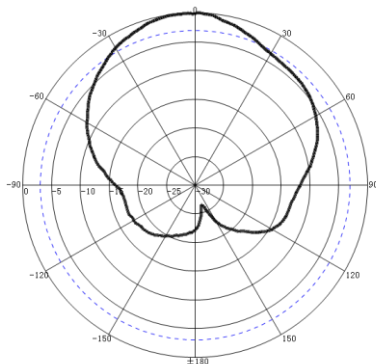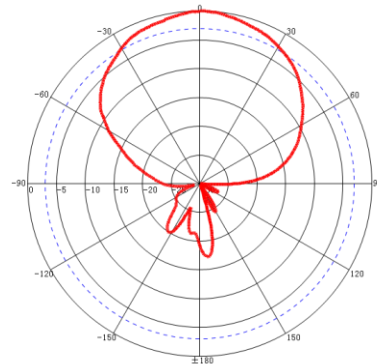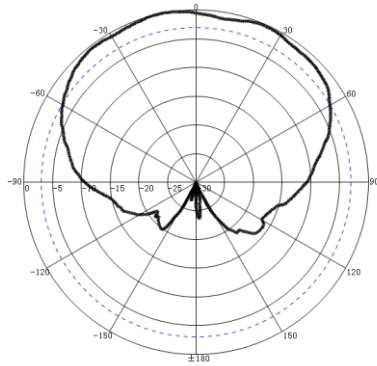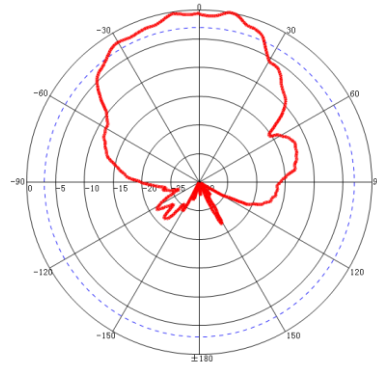**V-Plane: 5400 MHz**

H-Plane: 5850 MHz

V-Plane: 5850 MHz

Vertical Polarization

H-Plane: 2400 MHz

V-Plane: 2400 MHz

H-Plane: 2450 MHz
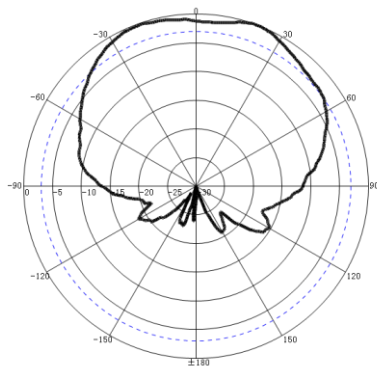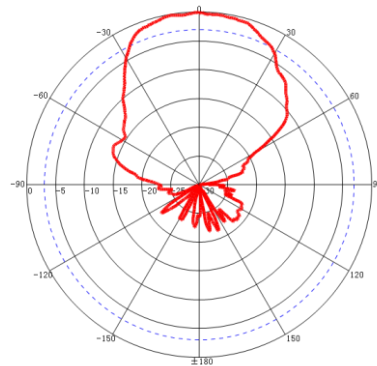

V-Plane: 2450 MHz

H-Plane: 2500 MHz

V-Plane: 2500 MHz

H-Plane: 4900 MHz

V-Plane: 4900 MHz

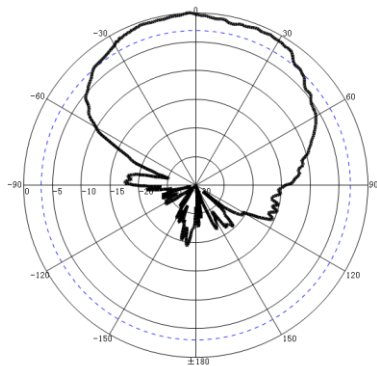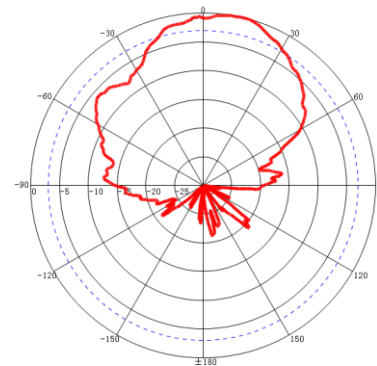**H-Plane: 5400 MHz**

V-Plane: 5400 MHz

H-Plane: 5850 MHz

V-Plane: 5850 MHz