

HyperLink Wireless 2.4/4.9-5.8 GHz 3 dBi Magnetic Mount Mobile Omni Antenna Models: HG245803MGURB and HG245803MGURW

Applications

- Supports IEEE 802.11 a/b/g/n applications
- 2.4/5.8 GHz Wireless LAN systems
- Homeland Security and Public Safety Band
- Ideal for use on vehicles
- Multipoint and mobile applications

Features

- Dual frequency band
- Compact size, available in White or Black
- Radome enclosed, ideal for outdoor use
- TAD/NMO mounting
- Magnetic base with 10 foot high performance low-loss cable



Description

The Antenna

The antenna featured in this kit is the HyperLink HG245803UR-NMO series. They are very compact 3 dBi Omni-directional antennas designed primarily for multipoint and mobile applications in the 2.4 GHz and the 4.9-5.8 GHz frequency bands.

Measuring only 2.7 inches long, the HG245803UR-NMO series features an aesthetic ABS plastic radome available in White or Black. It is designed with a standard TAD/NMO Motorola-type connection that allows for ease of installation to similar TAD/NMO mounting systems. Because of its near-invisible design this antenna is ideal for use on vehicles where vandal-resistance and aesthetics are important.

Magnetic Mount

The magnetic mount included with this kit features a chrome base with a heavy-duty magnet to ensure positive mounting. It is well suited for mobile applications including service vehicles, public transportation, law enforcement, mining and construction vehicles. A 10 foot high performance low-Loss 195 series cable is provided and multiple connector options are available.



Model Numbers

Model Number	Color
HG245803MGURB-xxx*	Black
HG245803MGURW-xxx*	White
*See drawing for connector options	

Specifications

Antenna Mechanical Specifications

Connector	TAD/NMO
Dimensions (length x Dia.)	2.7 x 1.4 in. (69 x 36 mm)
Weight	0.21 lb. (0.09kg)
Rated Wind Velocity	130mph (210km/h)
Operating Temperature	-40° C to 60° C (-40° F to 140° F)

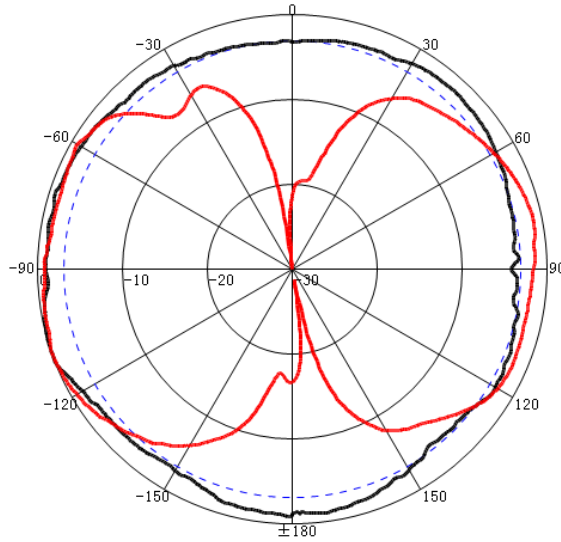
Antenna Electrical Specifications

Frequency	2400-2500/4900-5850 MHz
Gain	3 dBi
Polarization	Vertical
Horizontal Beamwidth	270° (2.4 GHz) / 360° (5 GHz)
Vertical Beamwidth	80° (2.4 GHz) / 36° (5 GHz)
VSWR	≤3.0
Impedance	50 Ohm
Maximum Power	100W
Lightning Protection	DC Open

Magnetic Mount Specifications

Diameter	3 in. (76.2mm)
Height (Mount Only)	1.2 in. (31.7mm)
Height (with Antenna)	3.7 in. (93mm)
Weight (Mount Only)	0.89 lbs. (.40kg)
Weight (with Antenna)	1.10 lbs. (.50kg)
Mount Connector	TAD/NMO
Cable	Black Low-Loss 195 Series - 10 foot

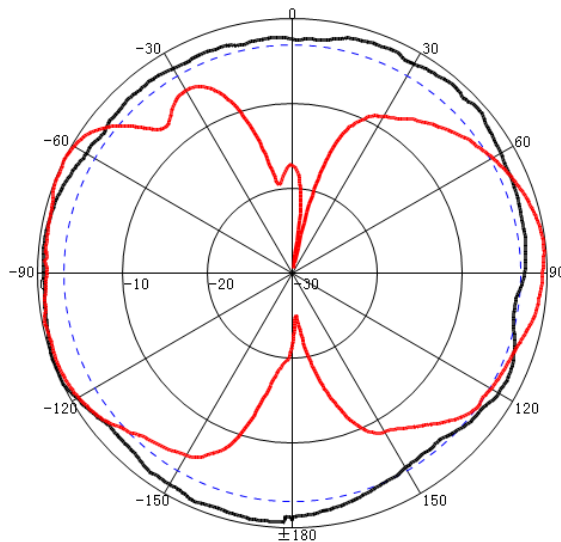
RF Antenna Patterns



Freq:2400MHz
Date:2014-01-21
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-26.95dB
HPBW(3dB):201.61°
FBR:1.62dB

Freq:2400MHz
Date:2014-01-21
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-25.99dB
HPBW(3dB):89.25°
FBR:1.03dB

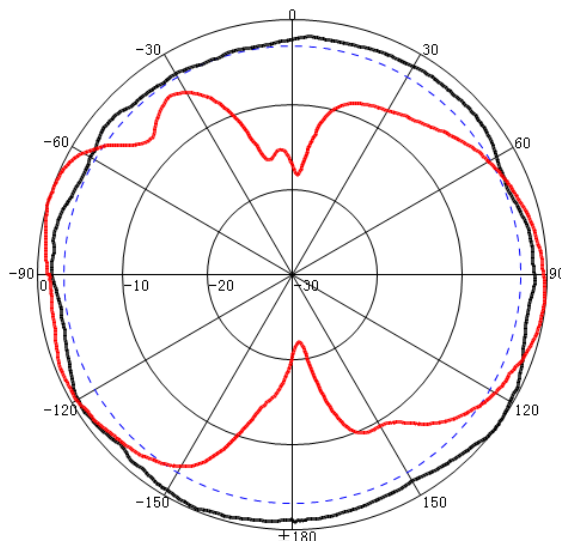
Gain:3.75dBi



Freq:2450MHz
Date:2014-01-21
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-27.04dB
HPBW(3dB):273.03°
FBR:0.77dB

Freq:2450MHz
Date:2014-01-21
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-25.83dB
HPBW(3dB):82.82°
FBR:0.33dB

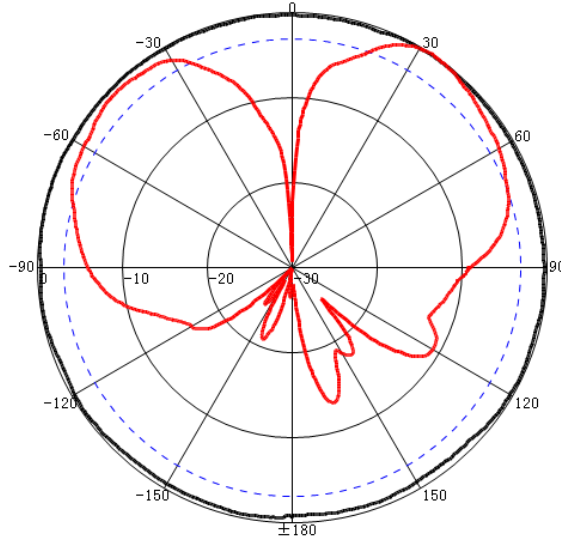
Gain:3.62dBi



Freq:2500MHz
Date:2014-01-21
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-27.44dB
HPBW(3dB):324.39°
FBR:1.56dB

Freq:2500MHz
Date:2014-01-21
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-25.83dB
HPBW(3dB):89.02°
FBR:0.13dB

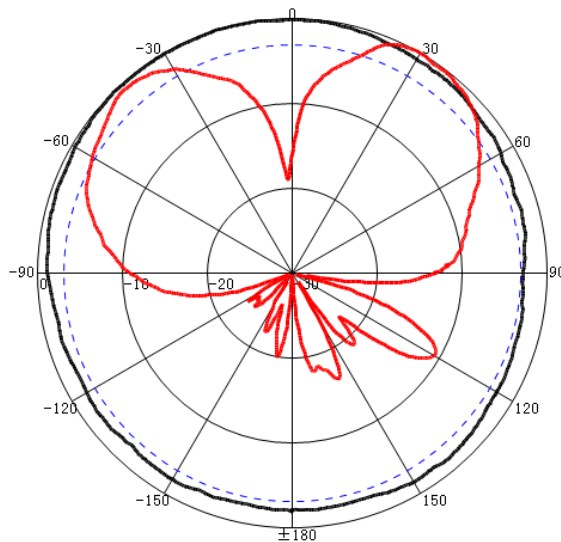
Gain:3.56dBi



Freq:4900MHz
 Date:2014-01-21
 Elevation:H-plane
 Polar-Across:Main
 Polarization:Vertical
 Max:-29.94dB
 HPBW(3dB):360.00°
 FBR:0.20dB

Freq:4900MHz
 Date:2014-01-21
 Elevation:V-plane
 Polar-Across:Main
 Polarization:Vertical
 Max:-28.53dB
 HPBW(3dB):50.13°
 FBR:15.81dB

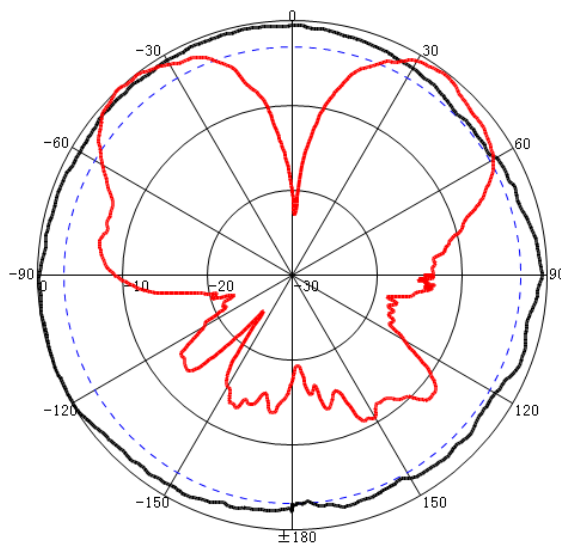
Gain:5.10dBi



Freq:5400MHz
 Date:2014-01-21
 Elevation:H-plane
 Polar-Across:Main
 Polarization:Vertical
 Max:-34.87dB
 HPBW(3dB):360.00°
 FBR:1.44dB

Freq:5400MHz
 Date:2014-01-21
 Elevation:V-plane
 Polar-Across:Main
 Polarization:Vertical
 Max:-33.49dB
 HPBW(3dB):36.57°
 FBR:20.02dB

Gain:6.47dBi



Freq:5850MHz
 Date:2014-01-21
 Elevation:H-plane
 Polar-Across:Main
 Polarization:Vertical
 Max:-41.30dB
 HPBW(3dB):248.08°
 FBR:0.59dB

Freq:5850MHz
 Date:2014-01-21
 Elevation:V-plane
 Polar-Across:Main
 Polarization:Vertical
 Max:-42.30dB
 HPBW(3dB):36.86°
 FBR:8.23dB

Gain:4.88dBi