

HyperLink Wireless 698-960/1710-2700 MHz 3 dBi Magnetic Mount Omni Antenna Models: HG72703MGURB and HG72703MGURW

Applications

- DAS (Distributed Antenna Systems)
- 700 MHz, cellular and LTE networks
- AWS (Advanced wireless services) band applications
- PCS (Personal communications service) band applications
- Ideal for use on vehicles

Features

- Frequency coverage for 700 MHz, 850 MHz, AWS and PCS bands
- 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 HG72703UR-NMO series. They are compact 3 dBi omnidirectional antennas specifically designed for DAS (Distributed Antenna Systems). The HG72703UR-NMO combines several different frequency bands to allow multi-user options. They are ideal for multipoint and mobile applications

Measuring only 3.8 inches long, the HG72703UR-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
HG72703MGURB-xxx*	Black
HG72703MGURW-xxx*	White
*See drawing for connector options	

Specifications

Antenna Mechanical Specifications

Connector	TAD/NMO
Dimensions (length x Dia.)	3.8 x 1.4 in. (96 x 36 mm)
Weight	0.20 lb. (0.09kg)
Rated Wind Velocity	130mph (210km/h)
Operating Temperature	-40° C to 60° C (-40° F to 140° F)

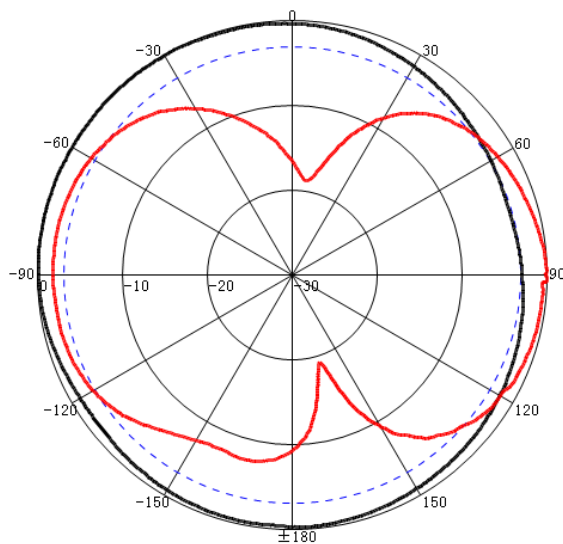
Antenna Electrical Specifications

Frequency	698-960/1710-2700 MHz
Gain	3 dBi
Polarization	Vertical
Horizontal Beamwidth	315° (700 MHz) / 360° (2700 MHz)
Vertical Beamwidth	80° (700 MHz) / 55° (2700 MHz)
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)	4.7 in. (119mm)
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

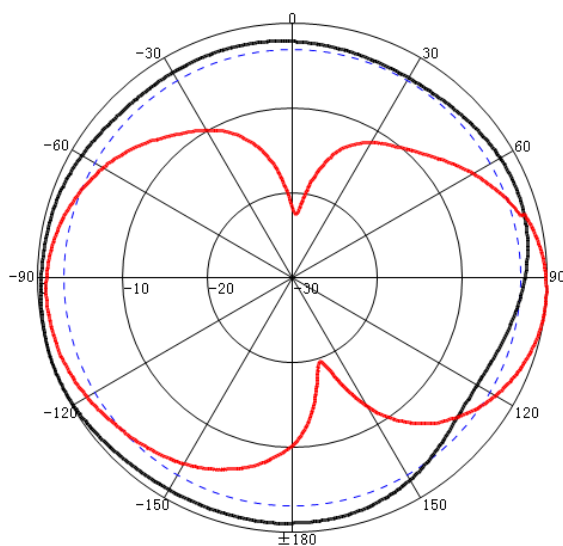
RF Antenna Patterns



Freq:698MHz
Date:2014-03-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-8.90dB
HPBW(3dB):315.79°
FBR:1.29dB

Freq:698MHz
Date:2014-03-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-8.20dB
HPBW(3dB):79.07°
FBR:1.82dB

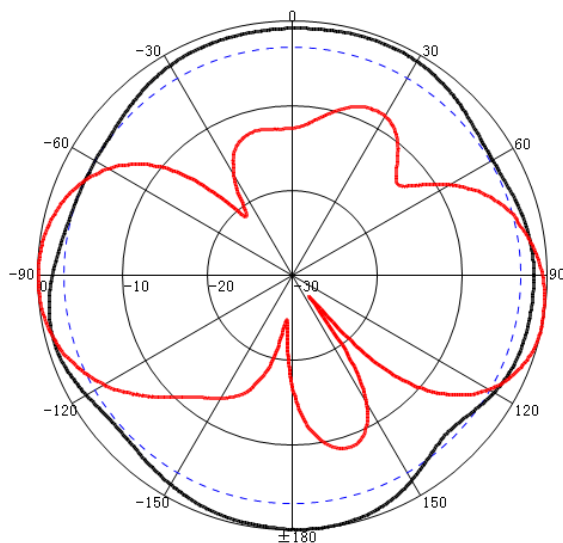
Gain:3.50dBi



Freq:824MHz
Date:2014-03-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-8.69dB
HPBW(3dB):285.70°
FBR:1.60dB

Freq:824MHz
Date:2014-03-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-9.62dB
HPBW(3dB):53.21°
FBR:0.96dB

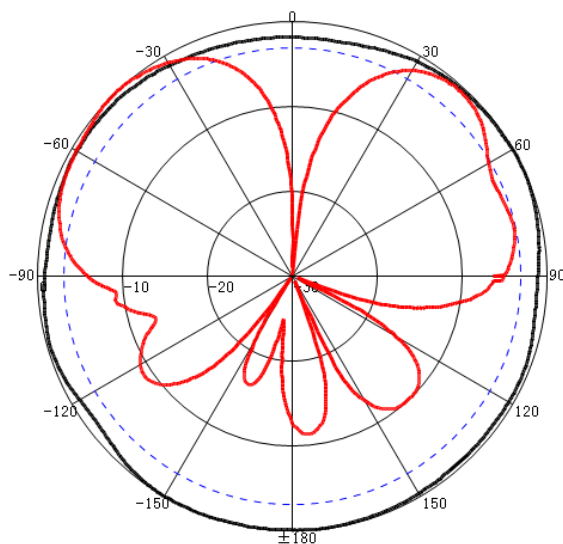
Gain:4.29dBi



Freq:960MHz
Date:2014-03-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-15.81dB
HPBW(3dB):141.93°
FBR:0.63dB

Freq:960MHz
Date:2014-03-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-17.23dB
HPBW(3dB):45.05°
FBR:0.10dB

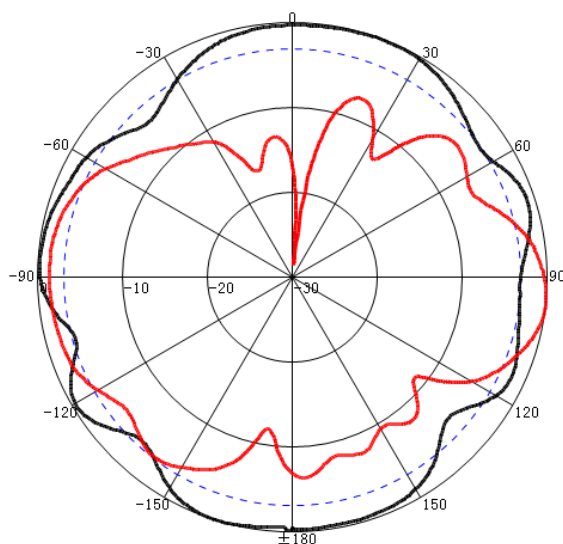
Gain:5.09dBi



Freq:1710MHz
Date:2014-03-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-32.56dB
HPBW(3dB):360.00°
FBR:0.19dB

Freq:1710MHz
Date:2014-03-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-30.33dB
HPBW(3dB):62.73°
FBR:10.05dB

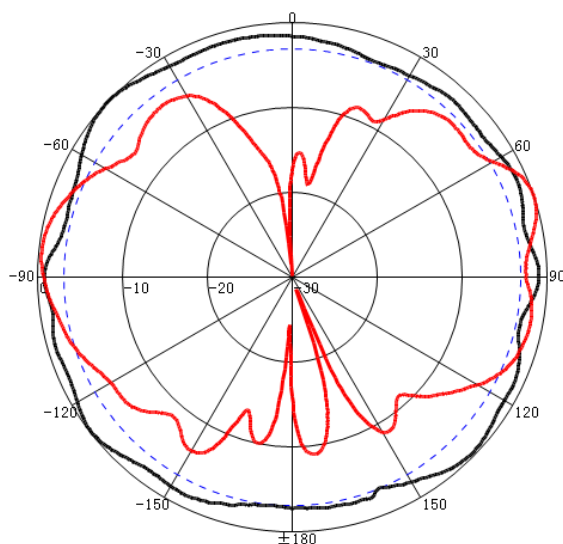
Gain:4.36dBi



Freq:2200MHz
Date:2014-03-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-27.30dB
HPBW(3dB):75.73°
FBR:0.05dB

Freq:2200MHz
Date:2014-03-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-25.91dB
HPBW(3dB):36.40°
FBR:1.37dB

Gain:4.39dBi



Freq:2700MHz
Date:2014-03-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-29.72dB
HPBW(3dB):334.74°
FBR:0.33dB

Freq:2700MHz
Date:2014-03-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-29.80dB
HPBW(3dB):55.34°
FBR:0.35dB

Gain:4.12dBi