HyperLink Wireless 698-960/1710-2700 MHz 120° Sector Panel DAS Antenna Model: HG72712P-120

Applications

- DAS (Distributed Antenna Systems)
- 700 MHz and cellular applications
- AWS (Advanced wireless services) and PCS (Personal communications service) band applications
- IEEE 802.11b/g WiFi applications
- LTE networks

Features

- Frequency coverage for 700 MHz, 850 MHz, AWS and PCS bands
- All weather operation
- Heavy duty steel mounting brackets
- Integral N-Female connector
- Internal combiner eliminates the need for separate coax cables for each frequency

RoHS Compliant

Description

The HyperLink HG72712P-120 is a professional grade 120 degree sector panel antenna specifically designed for DAS (Distributed Antenna Systems). This outdoor all weather antenna helps wireless carriers to quickly increase capacity as well as deploy new spectrum in zoning challenged locations. The HG72712P-120 combines several different frequency bands to allow multi-user options. Applications for the HG72712P-120 include:

- Densely populated urban areas
- Educational campuses
- Resorts and theme parks
- Parks and nature centers

Rugged and Weatherproof

This antenna's construction features a durable UV resistant PVC radome for durability and aesthetics. Its mounting system features heavy-duty up/down tilt mounting brackets. This allows installation at various degrees of incline for easy alignment.

Single Antenna Feed

The HG72712P-120 features a single N-Female connector due to the antenna’s internal combiner. This simplifies installation since only one coax cable is required to be sent to the antenna.

Specifications

Electrical Specifications

Frequency Range	698 – 960 MHz	1710 – 2700 MHz
Gain	12 dBi	
Horizontal Beamwidth	120°	
Vertical Beamwidth	18°	
Polarization	Vertical	
Impedance	50 Ohm	
Max. Input Power	100 Watts	
Front to Back Ratio	≥ 15 dB	
VSWR	≤ 1.8	
Lightning Protection	DC Ground	

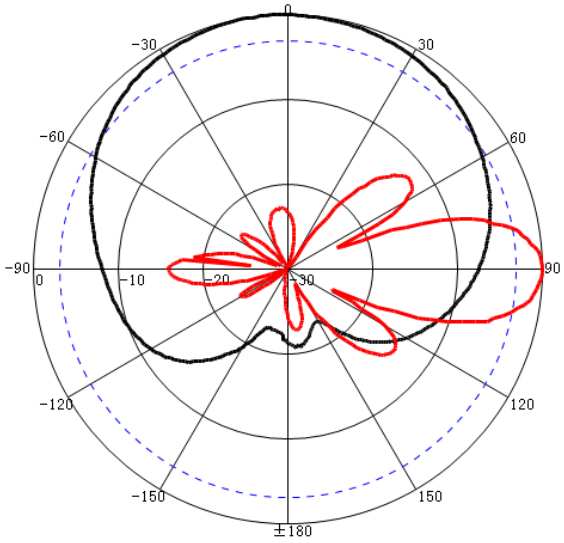
Mechanical Specifications

Connector	Integral N-Female
Weight (Including Bracket)	33.7 lbs (15.3 kg)
Dimensions	61.7 x 12.6 x 6.3 in. (1568 x 320 x 160mm)
Radome Material	UV Resistant PVC
Radome Color	White
Mounting Mast Size	1.96 – 4.13 in. (50 – 105mm)
Mechanical Tilt	0-14°
Operating Temperature	-40° C to 60° C (-40° F to 140° F)
RoHS Compliant	Yes

Wind Loading Data

Wind Speed (MPH)	Loading – Front	Loading – Side
100	276 lbs	138 lbs
125	432 lbs	216 lbs

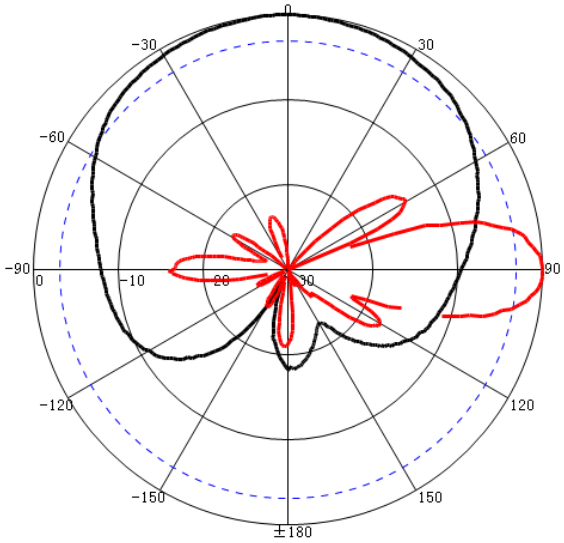
RF Antenna Patterns



Freq:698MHz
Date:2013-12-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-50.28dB
HPBW(3dB):109.32°
FBR:19.80dB

Freq:698MHz
Date:2013-12-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-47.28dB
HPBW(3dB):20.58°
FBR:15.88dB

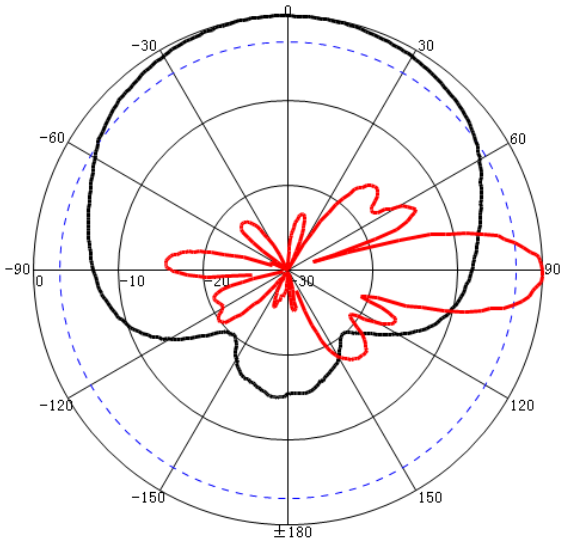
Gain:11.64dBi



Freq:824MHz
Date:2013-12-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-39.00dB
HPBW(3dB):106.88°
FBR:18.14dB

Freq:824MHz
Date:2013-12-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-37.71dB
HPBW(3dB):19.47°
FBR:15.87dB

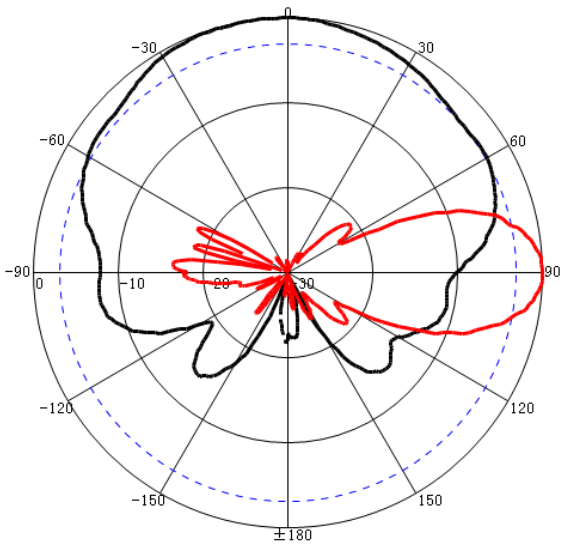
Gain:12.53dBi



Freq:960MHz
Date:2013-12-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-42.18dB
HPBW(3dB):110.64°
FBR:14.94dB

Freq:960MHz
Date:2013-12-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-43.61dB
HPBW(3dB):15.37°
FBR:15.56dB

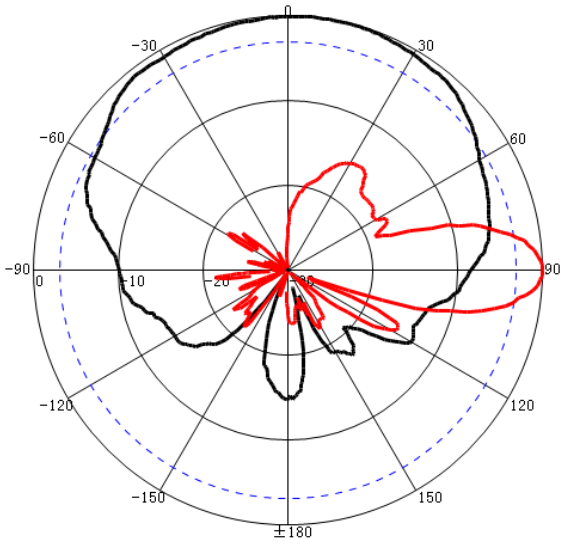
Gain:12.39dBi



Freq:1710MHz
Date:2013-12-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-55.39dB
HPBW(3dB):110.86°
FBR:17.81dB

Freq:1710MHz
Date:2013-12-05
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-52.91dB
HPBW(3dB):22.74°
FBR:16.40dB

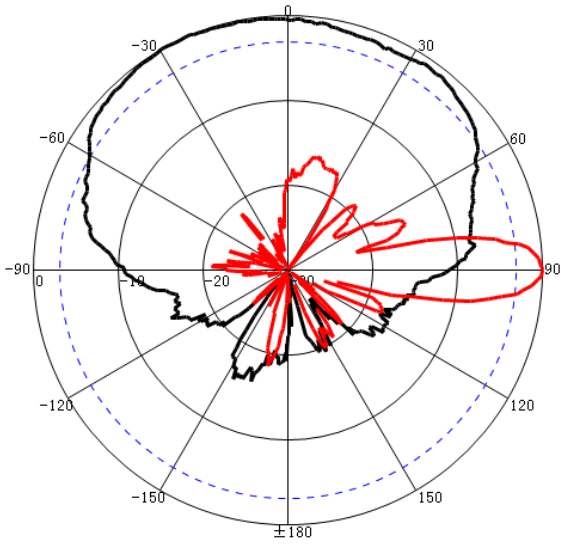
Gain:11.74dBi



Freq:2200MHz
Date:2013-12-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-61.48dB
HPBW(3dB):108.85°
FBR:14.79dB

Freq:2200MHz
Date:2003-01-01
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-58.50dB
HPBW(3dB):16.24°
FBR:21.37dB

Gain:12.33dBi



Freq:2700MHz
Date:2013-12-05
Elevation:H-plane
Polar-Across:Main
Polarization:Vertical
Max:-73.09dB
HPBW(3dB):115.47°
FBR:15.67dB

Freq:2700MHz
Date:2003-01-01
Elevation:V-plane
Polar-Across:Main
Polarization:Vertical
Max:-69.67dB
HPBW(3dB):12.74°
FBR:20.94dB

Gain:13.16dBi

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