

## HyperLink Wireless 900 MHz 13 dBi Dual X-Polarity 120° Sector Antenna Model: HG913DPSP-120

### Applications

- 900 MHz ISM/GSM band
- 900 MHz wireless video links
- Non Line of Sight (NLOS)
- SCADA applications
- 900 MHz cellular applications

### Features

- All weather operation
- High power handling
- Dual X-Polarized (45° Horizontal and 45° Vertical)
- Includes 20° Down-tilt mounting bracket and mast
- Dual 7/16 DIN Female connectors



### Description

The HyperLink® HG913DPSP-120 Sector Panel Antenna provides 13 dBi gain with a wide 120° beam-width. It is a professional quality "cell site" antenna designed primarily for service providers in the 900 MHz band.

It is ideally suited for 900 MHz ISM and GSM bands. Typical applications include 900 MHz Wireless LAN, SCADA, Wireless Video Links and 900 MHz Cellular.

#### Dual X-Polarized Design

This antenna features Dual X-Polarized elements, 45° horizontal and 45° vertical. The antenna is fed via two 7/16 DIN Female ports, one for vertically polarized and one for horizontally polarized signals. This feature makes the HG913DPSP-120 ideal for polarization diversity systems.

The (2) low loss high performance 7/16 DIN connectors can handle high transmit power over extended periods of time, at minimum losses.

#### Rugged and Weatherproof

This dual-band sector antenna features a heavy-duty UV-resistant PVC radome for all-weather operation. The heavy-duty mounting system allows installation adjusts from 0 to 20 degrees down tilt.

#### Ideal for Wireless Internet "Cell" Sites

This is an ideal choice for Wireless Internet Provider "cell" sites since the cell size can be easily determined by adjusting the down-tilt angle. Horizontal coverage is a full 120 degrees.

## Specifications

### Electrical Specifications

Frequency	870 – 960 MHz
Gain	13 dBi
VSWR	< 1.5:1
Polarization	±45°
Horizontal Beam Width	120°
Vertical Beam Width	18°
Electrical Downtilt	0°
Side Lobe Suppression (First side lobe above main beam)	>15 dB
Front to Back Ratio	>23 dB
Isolation	>30 dB
Cross-Polar Ratio	>15 dB ( $\pm 60^\circ \geq 10$ )
Intermodulation IM3 (2 x 43 dBm Carrier)	>-150 dBc
Impedance	50 Ohms
Max. Input Power	100W
Lightning Protection	DC Ground

### Mechanical Specifications

Connector	(2) 7/16 DIN Female
Connector Position	Bottom
Dimensions (length x width x height)	47.2 x 10.6 x 6.3 in. (1200 x 270 x 160 mm)
Weight	15.4 lb. (7kg)
Reflector Material	Aluminum Alloy
Radome Material	UV Resistant PVC
Mounting Method	Mast
Mast Size (diameter)	1.9 – 3.5 in. (50-90 mm)
Rated Wind Velocity	130 mph (210 km/h)
Operating Temperature	-40°F ~ +149°F (-40°C ~ +65°C)

### RF Antenna Patterns

