

# 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 mounting hardware
- 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**

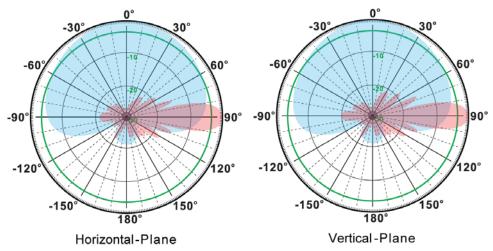
## **Electrical Specifications**

| 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<br>(First side lobe above main beam) | >15 dB             |
| Front to Back Ratio  | >23 dB             |
| Isolation  | >30 dB             |
| Cross-Polar Ratio  | >15 dB (±60° ≥ 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**



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