

## S245112PT Series

# 2.4-2.5 / 5.1-5.9 GHz Dual-Band MIMO Directional Antenna



### Dual-Band Point-to-Point MIMO Directional Antenna

Laird Technologies' S245112PT is a dual-band, directional panel antenna for use in 802.11n MIMO applications. Enclosed in a low-profile radome, the antenna is mounted using the included articulating mount. The mount can be affixed to a mast or anchored directly to a vertical surface. Each of the three MIMO antenna elements are connected to the WLAN Access Point via a low loss, plenum-rated, coax pigtail. The radiation patterns are uniform and symmetrical, providing high-level signal density into defined coverage zones. This antenna will greatly enhance the performance of 802.11n systems. The dual-band frequency coverage means that a single type of antenna can be deployed with any MIMO radio in the 2.4-2.5 GHz and 5.1-5.9 GHz bands.

#### FEATURES

- Low profile housing
- Mounts to Wall or Mast
- Heavy Duty Articulating Mount
- Performance optimized using Laird Technologies' proprietary RF optimization tools
- Designed specifically to support 802.11n networks
- Various connector and coax lengths options available

#### MARKETS

- Hospital
- Campus
- Research Institute
- Public safety wireless systems
- Transport Terminals

### 3 X 3 Element Dual-Band Panel Antenna

#### Specifications

Part Number:	S245112PT
Frequency:	2400-2500 MHz 5125-5875 MHz
Gain:	10.9 dBi @ 2450 MHz 13.5 dBi @ 5500 MHz
3 dB Beamwidth-Azimuth:	45° @ 2.4 GHz / 20° @ 5.0 GHz
3 dB Beamwidth-Elevation:	45° @ 2.4 GHz / 20° @ 5.0 GHz
Polarization:	Linear, 2 Vertical, 1 Horizontal
VSWR:	2.0:1
Cable Length in. (mm):	36" (914) Plenum rated (other lengths available)
RF Connector:	Reverse SMA (3x)
Power Rating:	10 W
Radome:	Polycarbonate
Dimensions (mm):	16.2" x 14.7" x 1.4" (411.4 x 373.3 x 35.8)
Weight:	1.1kg
Wind Surface Area:	@ 0°, 0.067m <sup>2</sup> / @ 90°, 0.009m <sup>2</sup>
Wind Survival:	200 km/h
Operational Temperature:	-30°C to +65°C
Mount Style:	Articulating for Wall / Mast
Water / Dust Seal Rating:	IP-67
RoHS:	Compliant

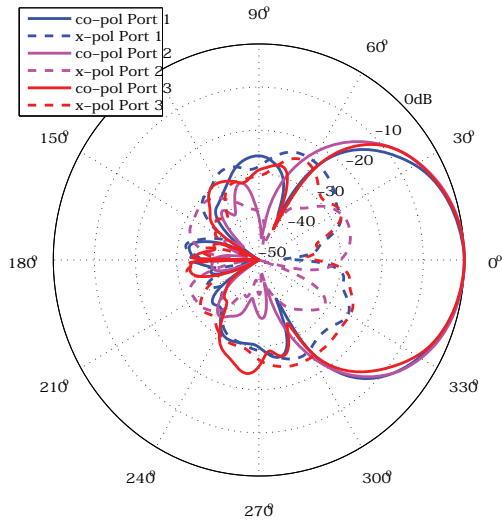


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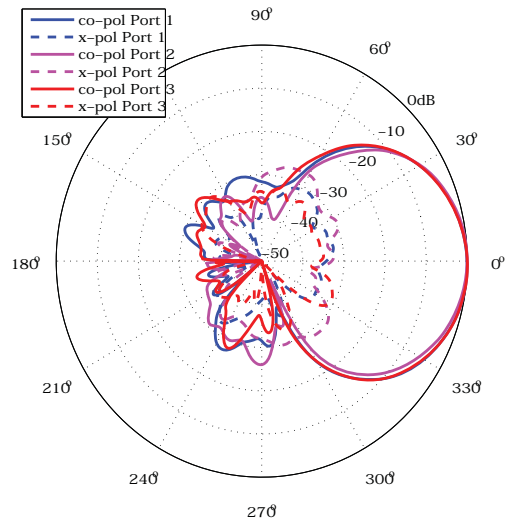
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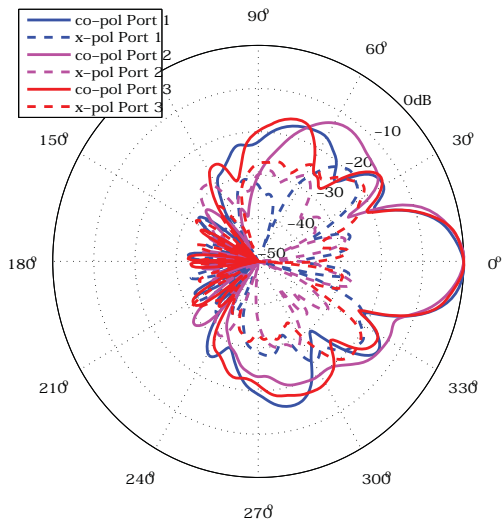
### Antenna Patterns



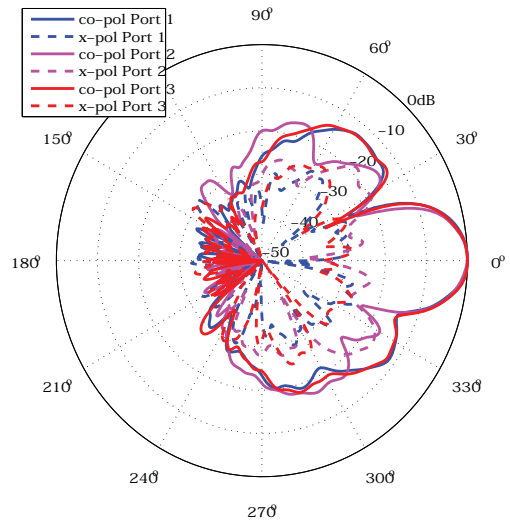
H Plane 2.45 GHz



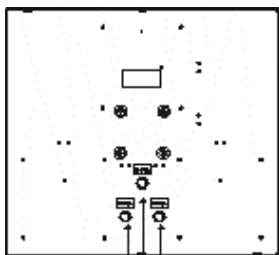
E Plane 2.45 GHz



H Plane 5.5 GHz



E Plane 5.5 GHz



Port 1  
Port 2  
Port 3

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