4900-5850 MHz VERTICALLY POLARIZED SECTOR ANTENNA

The vertically polarized ultra wide-band 5GHz sector antenna systems offered by Laird Technologies are constructed of UV stable ASA plastic radomes and galvanized steel brackets with stainless steel hardware for long service life in the most demanding conditions. The ultra wide-band operation allows a single antenna to cover a wide frequency range thereby allowing the operator maximum flexibility in his network. The antennas are DC Grounded for lightning/ESD protection. The heavy duty bracket system adjusts for up to 15° of downtilt.

FEATURES
- High-gain 16 and 17dBi in a small form factor
- Low wind loading: 160MPH survivability
- Vertically polarized, ultra wide-band operation
- Type N female integrated connector
- Galvanized steel tilt bracket for up to 3.5” dia pole

MARKETS
- 5.8GHz U-NII band applications
- Point-to-multi-point systems
- Base station antennas
- 802.11a applications
- Public safety

**PARAMETER** | **S4901790PNF** | **S49016120PNF**
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Frequency range | 4900 - 5850 MHz | 4900 - 5850 MHz
VSWR | 1.8:1 | 1.8:1
Impedance | 50 ohm | 50 ohm
Input power | 10W | 10W
Pole diameter (OD) | 1.5” - 3.5” (38-89mm) | 1.5” - 3.5’ (38-89mm)
Operating temperature | -40 - +70°C | -40 - +70°C
Gain | 17 dBi | 16 dBi
Horizontal beamwidth | 90° | 120°
Vertical beamwidth | 6° | 6°
Polarization | Vertical | Vertical
Front-to-back | >25 dB | >25 dB
Cross polarization | >15 dB | >15 dB
Mechanical downtilt | 15° | 15°
Weight | 2 lbs (1.3 kg) | 2 lbs (1.3 kg)
Dimensions (L x W x H) | 24.6” x 2.7” x 1.7” (625 x 69 x 43 mm) | 24.6” x 2.7” x 1.7” (625 x 69 x 43 mm)

**WIND LOADING**

| MODEL | SQ. IN | 100 MPH | 125 MPH |
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S4901xx | 66.4 | 16.6 lb | 24.9 lb |

**SYSTEM ORDERING**

- S4901790PNF 4900-5850MHz 90deg 17dBi VPOL sector antenna
- S49016120PNF 4900-5850MHz 120deg 16dBi VPOL sector antenna

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