Innovative **Technology** for a **Connected** World

HORIZONTALLY POLARIZED SECTOR ANTENNAS

SAH58-WB

5470-5850 MHz HORIZONTALLY POLARIZED WIDE-BAND SECTOR ANTENNA

The horizontally polarized sector antenna systems offered by Laird Technologies are constructed of UV stable ABS plastic radomes and die cast aluminum brackets for long service life in the most demanding conditions. The horizontal polarization allows for reduced interference potential in systems which are installed in areas with high levels of vertically polarized RF noise or where the system manager wants to avoid potential future problems with interference. The super heavy duty bracket system is easy to install and adjust for up to 15° of downtilt. The single point bracket allows for easy deployment of multiple sectors around a single pole.

FEATURES ✓RoHS

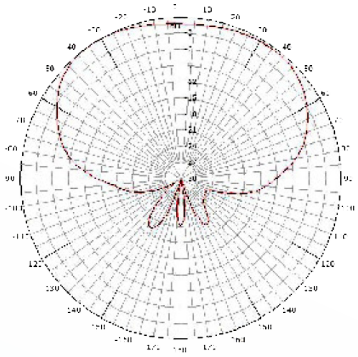
- Wide-band operation
- Horizontally polarized
- High-gain in a small form factor
- Type N female integrated connector
- Completely weatherproof

MARKETS

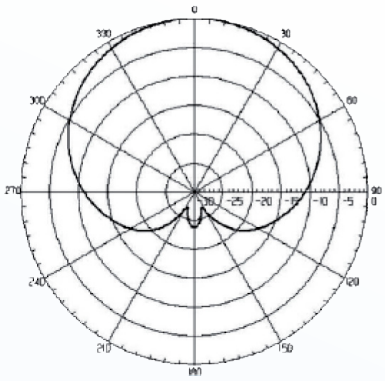
- 5.8GHz U-NII band applications
- Base station antennas
- Point-to-multi-point systems
- 802.11a applications
- WiMAX

PARAMETER	SAH58-120-16-WB	SAH58-90-17-WB
Frequency range	5400 - 5850 MHz	5400 - 5850 MHz
VSWR	1.5:1	1.5:1
Impedance	50 ohm	50 ohm
Input power	100 W	100 W
Pole diameter (OD)	1.5 - 3 in (38 - 76 mm)	1.5 - 3 in (38 - 76 mm)
Operating temperature	-40 to +70°C	-40 to +70°C
Gain	15 dBi	17 dBi
Horizontal beamwidth	120°	90°
Vertical beamwidth	6°	6°
Polarization	Horizontal	Horizontal
Front-to-back	>25 dB	>26 dB
Mechanical downtilt	15°	15°
Weight	2.6 lbs (1.2 kg)	2.6 lbs (1.2 kg)
Dimensions (L x W x H)	22 x 5 x 2.8 in (554 x 125 x 71 mm)	22 x 5 x 2.8 in (554 x 125 x 71 mm)

ANTENNA PATTERNS



SAH58-120-16-WB
Azimuth



SAH58-90-17-WB
Azimuth

WIND LOADING

MODEL	SQ. IN	100 MPH	125 MPH
SAH58-WB	110	27.5 lb	43 lb

SYSTEM ORDERING

SAH58-120-16-WB 5400 - 5850 MHz 120°, 15 dBi, wide-band HPOL sector antenna
SAH58-90-17-WB 5400 - 5850 MHz 90°, 17 dBi, wide-band HPOL sector antenna

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