



2400-2483 MHZ HORIZONTALLY POLARIZED SECTOR ANTENNAS

The sector antenna systems offered by Laird Technologies are constructed from rigid aluminum extrusion, these units are powder coated and sealed with PTFE (Teflon) tape providing lightweight, rigid, weatherproof units. They feature 50 ohm passive feeds that come standard with type N female connectors. Laird Technologies offers two different bracket systems with these antennas: A) The super heavy duty single point galvanized bracket system is designed for ease of installation and pole-top mounting B) The all stainless steel 2 point scissor bracket gives increased stability and improved downtilt adjustment accuracy. Both brackets offer 10deg of mechanical downtilt. The N connector is positioned on the front/transmission side of the sector.

FEATURES

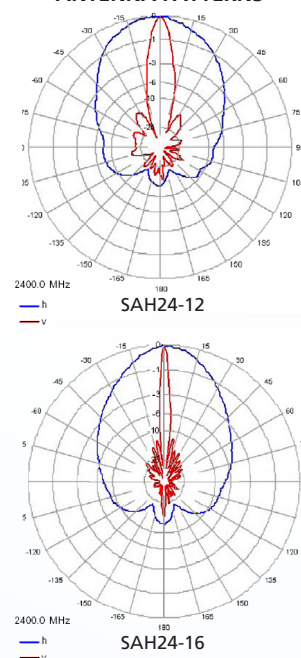
- Horizontally polarized
- 95 degree horizontal beamwidth
- 12dBi and 16.5dBi antenna gains
- Two bracket choices
- Super rugged and lightweight, 2 Year warranty

MARKETS

- 2.4 GHz ISM band applications
- 802.11b and 802.11g wireless systems
- WiFi base station antennas
- Wireless broadband systems
- Wireless internet

PARAMETER	SAH24-12	SAH24-16
Frequency range	2400 - 2483 MHz	2400 - 2483 MHz
Input return loss (S11)	-14 dB	-14 dB
VSWR	1.5:1	1.5:1
Impedance	50 ohm	50 ohm
Input power	100W	100W
Pole diameter (OD) g - Single Point Bracket	2" - 2.5" (50-60mm)	2" - 2.5" (50-60mm)
Pole diameter (OD) s - SS 2 point scissor bracket	1" - 2" (25-53mm)	1" - 2" (25-53mm)
Operating temperature	-30 - +65°C	-30 - +65°C
Gain	12 dBi	16.5 dBi
Horizontal beamwidth	95°	95°
Vertical beamwidth	18°	7°
Polarization	Horizontal	Horizontal
Cross pole	>25 dB	>25 dB
Front-to-back	>14 dB	>13.4 dB
Down tilt (mechanical)	10°	10°
Wind loading - 100 mph	25 lbf	63 lbf
140 mph	48 lbf	124 lbf
100 mph: 1/2" radial ice	34 lbf	80 lbf
Weight (with bracket)	6 lbs	9 lbs
Dimensions (L x W)	23" x 4" x 1"	49.5" x 4" x 1"

ANTENNA PATTERNS



SYSTEM ORDERING

- SAH24-12-__ 12dBi 2.4GHz horizontally polarized sector antenna
 SAH24-16-__ 16dBi 2.4GHz horizontally polarized sector antenna
 Specify "S" for scissor bracket or "G" for galvanized bracket

global solutions: local support™

Americas: +1.847.839.6907
IAS-AmericasEastSales@lairdtech.com

Europe: +1.32.80.7866.12
IAS-EUSales@lairdtech.com

Asia: +1.65.6.243.8022
IAS-AsiaSales@lairdtech.com

www.lairdtech.com

ANT-DS-SAH24 0809

All information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user, since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability or suitability of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2009 Laird Technologies, Inc. All Rights Reserved. Laird, Laird Technologies, the Laird Technologies Logo, and other marks are trade marks or registered trade marks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.