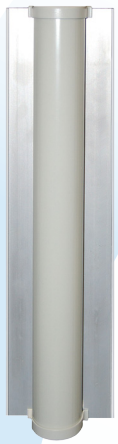
Innovative **Technology** for a **Connected** World

Broadband Wireless Antenna

J51014V00-120N



5.0 GHz VERTICAL POLARIZATION HIGH-PERFORMANCE 120° SECTOR

The Laird Technologies J51014V00-120N 5.0 GHz wideband, vertically polarized 120° sector antenna, covers frequencies from 4.9 to 5.9 GHz. Extremely low-side lobes, null fill below the horizon, and uniform energy distribution with the coverage area are achieved thanks to our highly skilled engineering staff and the utilization of our proprietary Artificial Intelligence RF Optimizing development tool. The antenna meets all aspects of ETSI EN 302.326-3 SS3. Laird Technologies' suite of high-performance sector antennas features proprietary design elements resulting in extremely high levels of system performance and ruggedness while maintaining very slim profiles with low wind and ice loading.

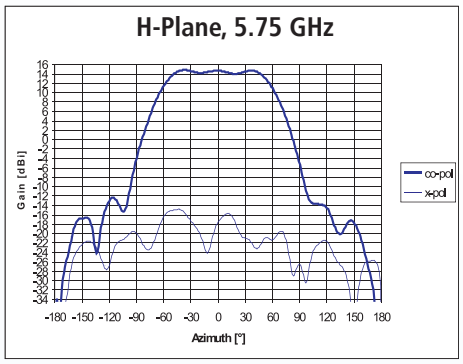
FEATURES ✓RoHS

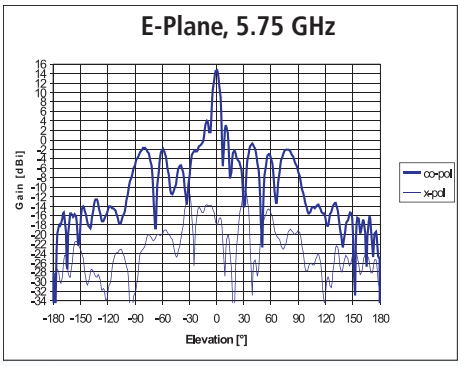
- 4.9 to 5.9 GHz full-band coverage
- Ultra-low side lobe performance
- Maximum null fill below the horizon
- Uniform cell coverage
- Rugged carrier class construction

MARKETS

- High multi-path environment
- Large carrier class deployment
- Wireless broadband service provider
- Optimized for MIMO space time processing
- WiMAX

ANTENNA PATTERNS





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

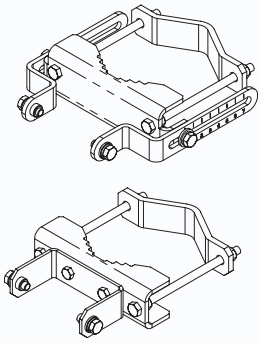
Innovative **Technology** for a **Connected** World

Broadband Wireless Antenna

J51014V00-120N

SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Antenna part number	J51014V00-120N
Frequency range	4.9-5.9 GHz
Peak gain	15 dBi (14.5 dBi typical)
Minimum gain	14.0 dBi @ 5.15-5.3 GHz, 13.5 dBi @ 4.9 GHz
Maximum VSWR	1.7:1
3 dB beamwidth- Azimuth	120°
3 dB beamwidth- Elevation	7°
Front-to-back ratio	> 35 dB
Azimuth and elevation sidelobes	ETSI EN 302.326-3 SS3
Cross-polarization	ETSI EN 302.326-3 SS3
Elevation null fill	Down to -25°
Polarization	Vertical
Input impedance	50 ohm
Maximum input power	20 W average, 240 W peak
Mounting hardware	Tilt mount kit 1.5 in to 4.5 in dia.
Lightning protection	DC-grounded
Temperature	-40°C to +70°C
Mechanical size	18.2 in x 4.7 in x 2.9 in
Antenna weight	1.2 kg
Wind survival rating	Operational 100 mph/ Survival 136 mph
Antenna connection	Type N female
Radome	ASA / Aluminum
Mount style	Mast mount



Mounting Kit:
JBXRK-01-TM5

Any 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 2011 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.