Laird TECHNOLOGIES

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

J34216V00-120N
Broadband Wireless Antenna

3.5 GHZ VERTICAL POLARIZATION HIGH-PERFORMANCE 120° SECTOR ANTENNA

The Laird Technologies J34216V00-120N 3.5 GHz wideband, vertically polarized 120° sector antenna, covers the frequency band from 3.4 to 3.8 GHz. Extremely low side lobes, null fill below the horizon and uniform energy distribution within 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 feature proprietary design elements, resulting in extremely high levels of system performance and ruggedness while maintaining very slim profiles with low wind and ice loading.

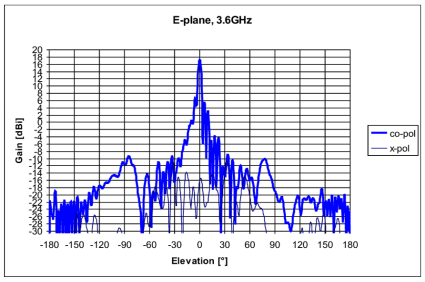
FEATURES RoHS

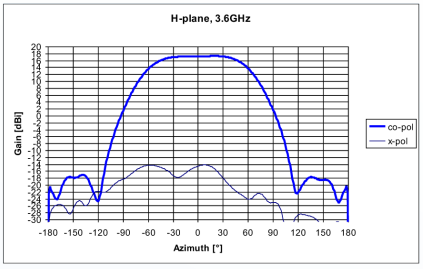
- Best-in-class f/b ratio
- Maximum null fill below the horizon
- Extraordinary low side lobe performance
- Rugged tilt mount hardware included
- Robust carrier class construction

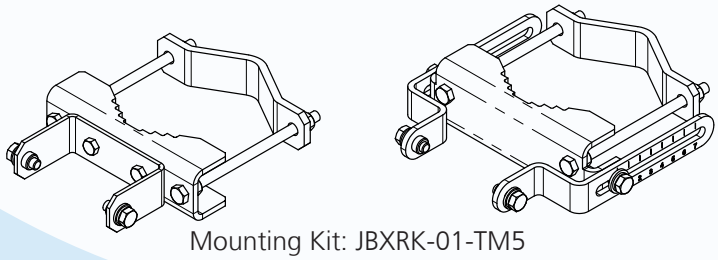
MARKETS

- Wireless broadband service provider
- Large carrier class deployment
- Optimized for MIMO space time processing
- Outstanding levels of antenna-to-antenna co-located isolation
- WiMAX

PARAMETER	SPECIFICATIONS
Frequency range	3.4 - 3.8 GHz
Gain @ 3.5 GHz	17.5 dBi
Maximum VSWR	1.7:1
3 dB beamwidth - Elevation	3.5°
3 dB beamwidth - Azimuth	120°
Elevation null fill	Down to -25°
Azimuth side lobes	ETSI EN 302.326-3 SS3
Polarization	Vertical
Lightning protection	DC-grounded
Minimum front-to-back isolation	ETSI EN 302.326-3 SS3, 30 dB
Maximum input power	30 W average, 360 W peak
Input impedance	50 ohm
Minimum cross-polarization	ETSI EN 302.326-3 SS3
Mechanical size	52.2 in x 5.7 in x 3.3 in
Antenna eight	3.5 kg
Wind survival rating	Operational 100 mph / survival 136 mph
Antenna connection	Type N female
Radome	ASA gray
Mount style	Mast mount
Mounting hardware	Tilt mount kit 1.5 in to 4.5 in diameter
Temperature	-40°C to +70°C







Mounting Kit: JBXRK-01-TM5

global solutions: local support ™

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