Laird TECHNOLOGIES

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

J33016D00-60N
Broadband Wireless Antenna

3.5 GHz DUAL LINEAR POLARIZATION HIGH-PERFORMANCE 60° SECTOR ANTENNA

The Laird Technologies J33016D00-60N 3.5 GHz wideband, dual linear polarized 60° sector antenna, covers the frequency band from 3.3 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 302.085 CS3. 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

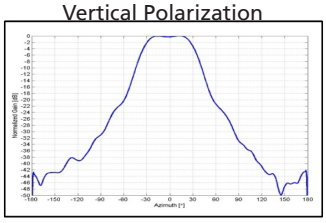
- Best-in-class f/b ratio
- Maximum null fill below the horizon
- Extraordinary low side lobe performance
- Rugged tilt mount hardware included
- Robust carrier class construction

MARKETS

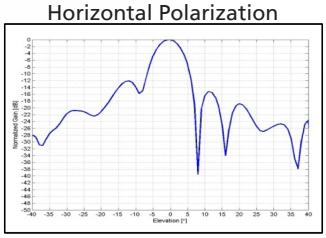
- Wireless broadband service provider
- Large carrier class deployment
- Optimized for MIMO space time processing
- Outstanding levels of antenna-to-antenna co-located isolation
- WiMAX

PARAMETER	SPECIFICATIONS
Frequency range	3.3 - 3.8 GHz
Gain @ 3.5 GHz	18 dBi
Maximum VSWR	1.8:1
3 dB beamwidth - Elevation	7°
3 dB beamwidth - Azimuth	60°
Elevation null fill	Down to -25°
Azimuth side lobes	ETSI EN 302.085 CS3
Polarization	Dual horizontal/vertical
Port-to-port isolation	>25 dB
Lightning protection	DC-grounded
Minimum front-to-back isolation	ETSI EN 302.085 CS3, 30 dB
Maximum input power	30 W average, 360 W peak
Input impedance	50 ohm
Minimum cross-polarization	ETSI EN 302.085 CS3
Mechanical size	28.3 in x 6.4 in x 10.8 in
Antenna weight	5.4 kg
Wind survival rating	Operational 100 mph / survival 136 mph
Antenna connection	Type N female
Radome	ASA white
Mount style	Mast mount
Mounting hardware	Tilt mount kit 1.5 in to 4.5 in diameter
Temperature	-40°C to +70°C

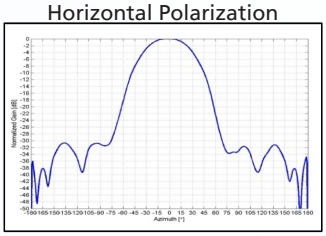
Vertical Polarization



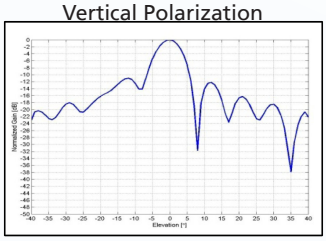
Horizontal Polarization

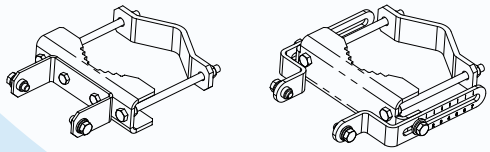


Horizontal Polarization



Vertical Polarization





Mounting Kit: JBXRK-01-TM5

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