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### 3.5 GHz HIGH-PERFORMANCE 90° BEAMWIDTH DUAL 45° SLANT SECTOR

The Laird Technologies J33016S00-90N 3.5 GHz wideband, dual slant sector antenna, covers frequencies from 3.3 to 3.8 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. 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.

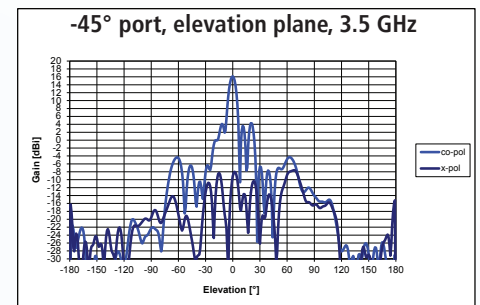
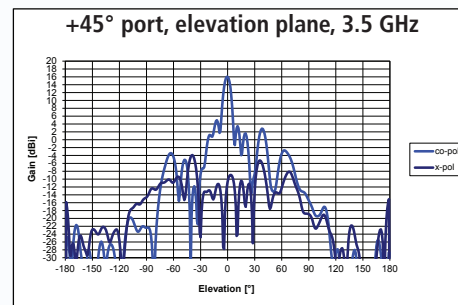
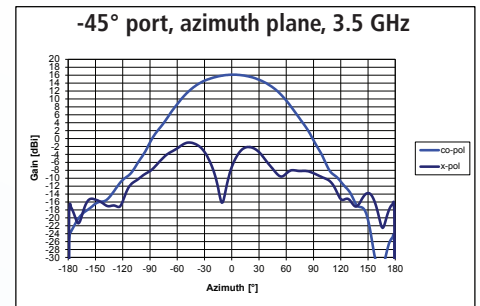
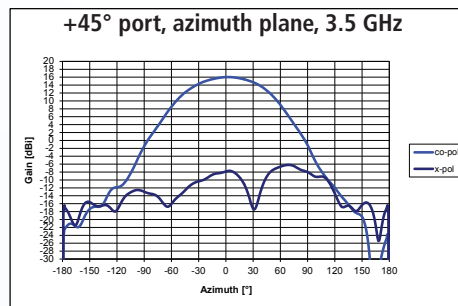
#### FEATURES

- Low side lobe performance
- Null fill below the horizon
- Excellent f/b ratio
- High level antenna-to-antenna co-located isolation
- Optimized for maximum ratio combining
- Rugged tilt mount hardware included

#### MARKETS

- High multi-path environment
- Large carrier class deployment
- WiMAX service provider
- Ideal base station antenna for high density wireless network coverage in mobile and fixed applications

#### ANTENNA PATTERNS



global solutions: local support™

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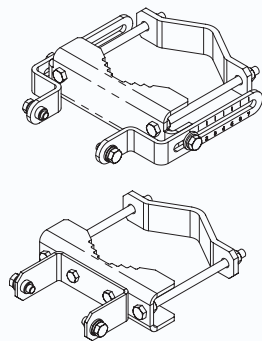
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### SPECIFICATIONS

PARAMETER	SPECIFICATIONS
Antenna part number	J33016S00-90N
Frequency range	3.3-3.8 GHz
Minimum gain	15.5 dBi, 16 dBi Typ
Maximum VSWR	1.8:1, 1.5:1 Typ
3 dB beamwidth- Azimuth	90°
3 dB beamwidth- Elevation	7°
Elevation null fill	Down to -25°
Azimuth sidelobes	ETSI EN 302.326-3 SS 2
Polarization	+45° and -45°
Port-to-port isolation	> 25 dB
Front-to-back ratio	> 30 dB
Maximum input power	30 W average, 360 W peak
Input impedance	50 ohm
Typical cross polarization	<-15 dB
Mechanical size	715 mm x 147 mm x 78 mm
Antenna weight	3.0 kg, 5.4 kg with mounting kit
Wind survival rating	Operational 100 mph/ Survival 136 mph
Antenna connection	Type N female
Radome	ASA Grey
Mount style	Mast mount
Mounting hardware	Tilt mount kit 1.5 in to 4.5 in dia.
Temperature	-40°C to +70°C
Lightning protection	DC-grounded



**Mounting Kit:**  
**JBXRK-01-TM5**

ANT-DS-J33016S00-90N 0511

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