



2.5 GHz HIGH-PERFORMANCE 90° BEAMWIDTH DUAL 45° SLANT SECTOR

The Laird Technologies J23016S00-90N 2.5 GHz wide-band, dual slant sector antenna covers frequencies from 2.3-2.7 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 301.326-3 SS. 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.

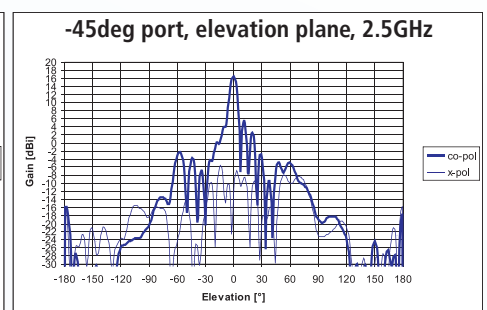
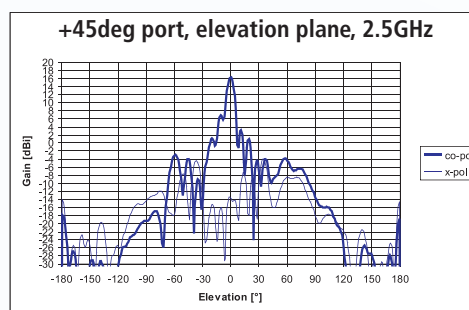
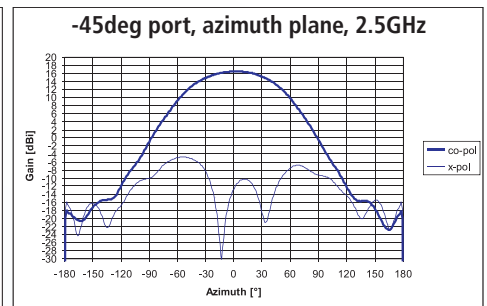
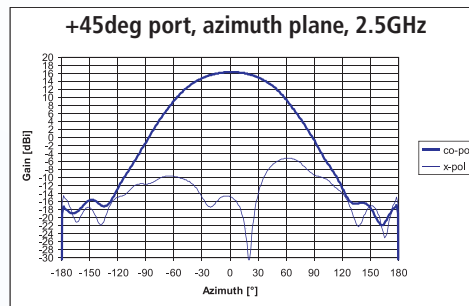
FEATURES

- 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



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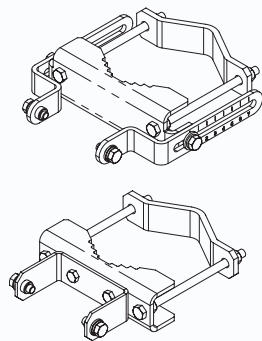
www.lairdtech.com

WiMax/Broadband Wireless Antenna

J23016S00-90N

SPECIFICATIONS

| PARAMETER | SPECIFICATIONS |
|----------------------------|--|
| Antenna part number | J23016S00-90N |
| Frequency range | 2.3-2.7 GHz |
| Gain @ 2.5GHz | 16 dBi |
| Maximum VSWR | 1.8:1 |
| 3 dB beamwidth- azimuth | 65° |
| 3 dB beamwidth- elevation | 7° |
| Elevation null fill | Down to 25° |
| Azimuth sidelobes | ETSI EN 301.326-3 SS |
| Polarization | +45° and -45° |
| Port-to-port isolation | > 25dB |
| Front-to-back ratio | > 35dB |
| Maximum input power | 40W average, 480W peak |
| Input impedance | 50 ohm |
| Typical cross polarization | < -20dB |
| Mechanical size | 40" x 8.2" x 4.5" |
| Antenna weight | 3.9 kg (8.5 lbs); 6.3 kg (13.0 lbs) with bracket |
| Wind survival rating | Operational 100mph/ Survival 136mph |
| Antenna connection | Type N female |
| Radome | ASA light grey |
| Mount style | Mast mount |
| Mounting hardware | Tilt mount kit 1.5" to 4.5" dia. |
| Temperature | -40°C to +70°C |
| Lightning protection | DC-grounded |



Mounting Kit:
JBXRK-01-TM5

ANT-DS-J23016S00-90N 0809

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