



3.3-3.8 GHZ WIRELESS BASE STATION SECTOR ANTENNA

Laird Technologies' J340 wireless access hub antennas provide high-gain performance in the 3.4 to 3.6 GHz band. These antennas come in a choice of 30°, 45°, 60°, and 90° beamwidths and are designed using a highly automated process that takes advantage of advanced EM analysis and artificial intelligence to insure that the highest level of performance is achieved for a given package size. These antennas represent the state-of-the-art in antenna design offering levels of efficiency and pattern that are not achievable by any other means. Shaped vertical patterns (cosecant²) eliminate nulls and provide uniform coverage as a function of range. Down tilt is achieved mechanically, while null-fill is a function of the electrical design. Shaped azimuth patterns insure uniform sector coverage, reducing spillover into adjacent cells and low front-to-back ratio. Cross polar rejection exceeds 20 dB.

FEATURES

- Rugged carrier class antenna
- Designed to accommodate any broadband wireless access system or base station application
- Provides system operators with real world system enhancements through interference rejection and frequency re-utilization

| MODEL | GAIN | POLARIZATION | AZIMUTH |
|---------------|----------|--------------|---------|
| J34021H50-30N | 21 dBi | Horizontal | 30° |
| J34021V50-30N | 21 dBi | Vertical | 30° |
| J34019H50-45N | 19.5 dBi | Horizontal | 45° |
| J34019V50-45N | 19.5 dBi | Vertical | 45° |
| J34018H50-60N | 18 dBi | Horizontal | 60° |
| J34018V50-60N | 18 dBi | Vertical | 60° |
| J34016H50-90N | 16 dBi | Horizontal | 90° |
| J34016V50-90N | 16 dBi | Vertical | 90° |

| PARAMETER | SPECIFICATIONS* |
|--------------------------------|-----------------|
| Frequency | 3.4 - 3.6 GHz |
| Gain flatness | ±0.5 |
| Weight (antenna only) lb. (kg) | 27 (12.3) |
| VSWR | 1.5:1 |
| Mounting Style | Mast |
| Dimensions | 36" x 19" x 12" |
| Windload (operational) | 300lbs @ 110mph |
| Enclosure | Aluminum |
| Power | 450 watts |
| RF connector | N (female) |

*Typical performance for 90 degree horizontal

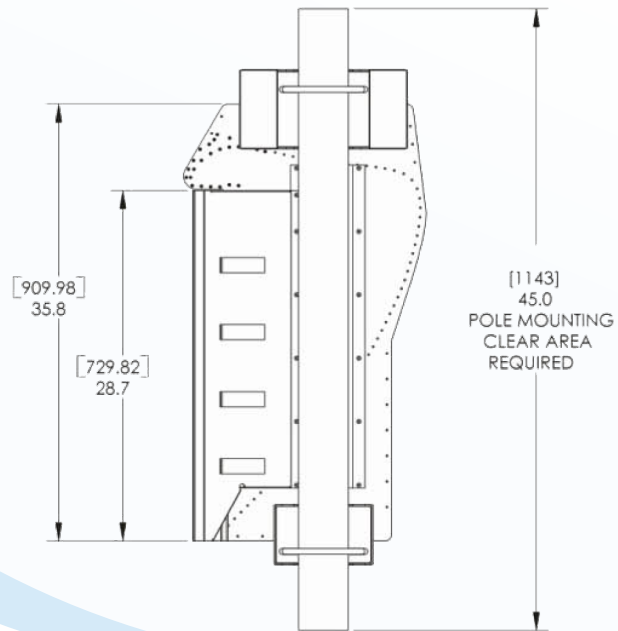
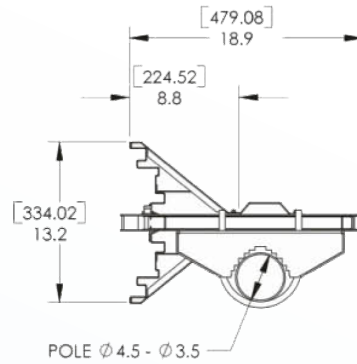
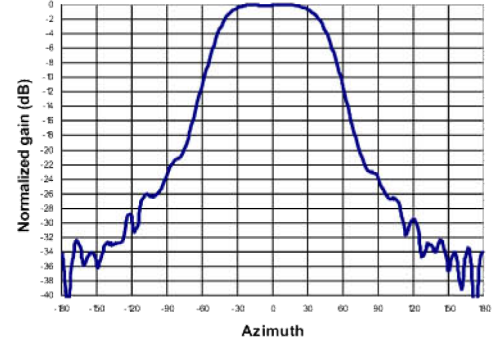
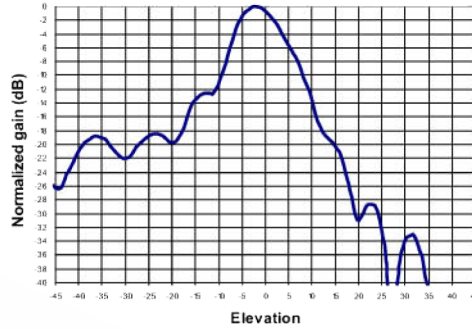
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