



### 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 (cosecant<sup>2</sup>) 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

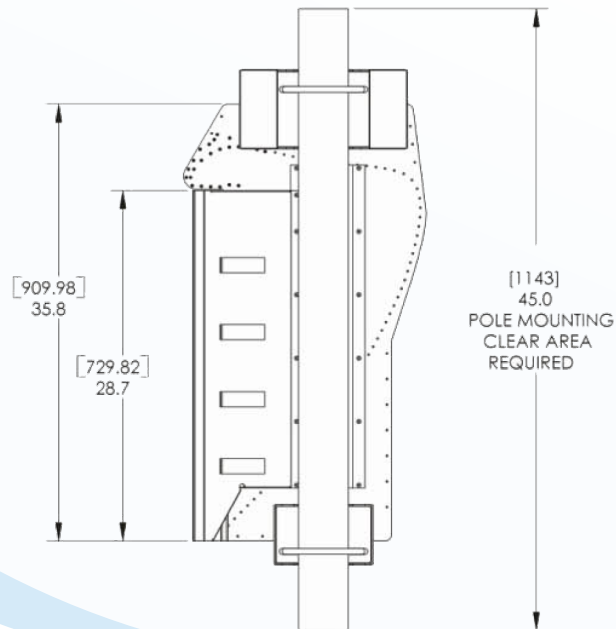
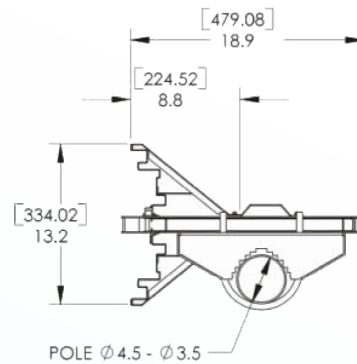
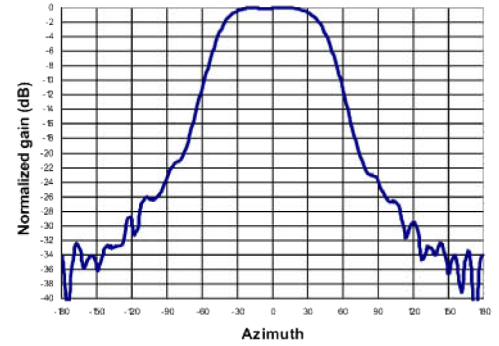
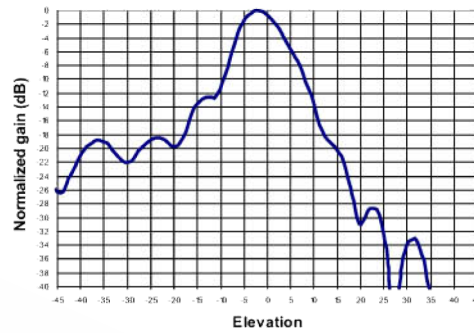
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