900/1800 MHz - ALXC Dualband Antenna

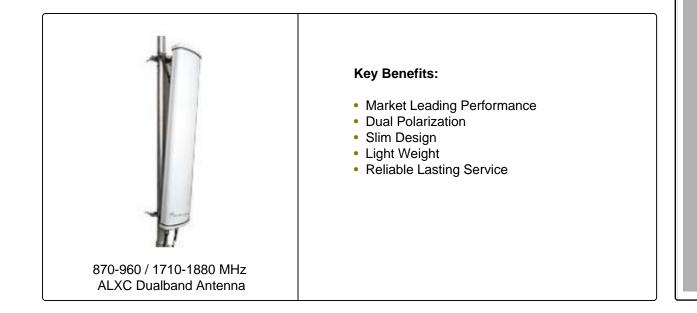
870-960 / 1710-1880 MHz - ALXC Dualband Antenna

Part Number: 7330.00

00/1800 MF

Horizontal Beamwidth: 65° Gain: 15.5 / 17.5 dBi Electrical Downtilt: 0° Connector Type: 7/16

The Powerwave[®] ALXC is a dual-polarized dualband 900/1800 MHz antenna with outstanding performance characteristics. Its outer radome is made of glass-fiber reinforced polyester (GRP), while the inner RF-module utilizes sophisticated patch technology for covering the two frequencies. ALXC radiating elements are based on a patented dualband function that allowed designing an antenna matched for two or several frequency bands, with no need for diplex filters. This technique minimizes intermodular distortion, while generating less loss and ensuring higher gain, maximum efficiency, for each set of beamwidths. The ALXC is available in a number of variants, to provide the widest range of solutions for specific individual cell-planning strategies implemented by Powerwave clients. Research and field studies conducted in cooperation with system suppliers and operators establish the Powerwave dualband concept as an outstanding technique for enhancing system performance and cutting costs.





ANTENNA Systems

BASE STATION SYSTEMS

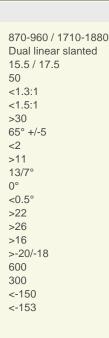
COVERAGE Systems

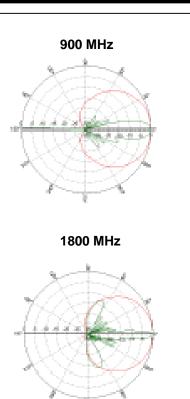
THE POWER IN WIRELESS®

900/1800 MHz - ALXC Dualband Antenna

Electrical Specifications

Frequency Range (MHz) Polarization Gain, co-polar (dBi) Nominal Impedance (Ohm) VSWR, TX VSWR, RX Isolation between inputs (dB) Horizontal -3 dB beamwidth Horizontal tracking (dB) Cross-polar discrimination (dB) Vertical -3 dB beamwidth Electrical downtilt Vertical beam squint Front-to-back ratio, total power (dB) Front-to-back ratio, co-polar (dB) First upper sidelobe suppression (dB) First Null below horizon (dB) Maximum input power, total (W) Maximum input power, per input (W) IM, 3rd order, 2 Tx@43dBm (dBc) IM, 3rd order, 2 Tx@43dBm (dBc)





All specifications are subject to change without notice. Contact your Powerwave representative for complete performance data.

Mechanical Specifications

Connector type Connector position Dimensions, HxWxD Weight including bracket Wind load, frontal, 42 m/s Cd=1 (N) Survival wind speed (m/s) Lightning protection Radome material Radome color Packing size Shipping weight Comments

Bottom 1450x280x125mm (4'9"x11"x5") 10.8kg (24 lbs) 450 70 DC grounded GRP Light gray* 1620x355x255mm (5'4"x1'2"x10") 13.5kg (30 lbs)

Gain is typical within frequency band.

- Beamwidths are defined using total power.
- Horizontal tracking is defined within +/-60° from boresight.
- Cross-polar discrimination is defined within -3dB beamwidth.
- Front-to-back ratio is defined within 20° from the backwards direction in any plane.
- Sidelobe suppression and null fill is relative to peak of main beam.
- Packing size is for antenna only (brackets excluded)
- *Radome color is NCS 2502-B (RAL 7035).
- Shipping weight including tilt brackets. Antenna is delivered with brackets premounted
- Radiation patterns are typical for the antenna.
- *Values are representative for 0 degree EDT, variants may differ slightly

Corporate Headquarters

- Powerwave Technologies, Inc. 1801 East St. Andrew Place Santa Ana, CA 92705 USA
- Tel: 714-466-1000 Fax: 714-466-5800 www.powerwave.com
- Main European Office Antennvägen 6 SE-187 80 Täby Sweden Tel: +46 8 540 822 00 Fax: +46 8 540 823 40

7/16

Hong Kong Office 23 F Tai Yau Building 181 Johnston Road Wanchai, Hong Kong Tel: +852 2512 6123 Fax: +852 2575 4860

