

Single Band X-Urban Antenna

65° 1.9 m X-polarized FET Antenna

Part Number: 7255.03	Horizontal Beamwidth: 65° Gain: 16.5 dBi / 14.4 dBd	Electrical Downtilt: 6° Connector Type: 7/16 DIN female
-------------------------	--	--

880-960 MHz

The Powerwave® X-Urban Single Band Antenna shares its characteristically slim design with the Urban antenna. Its outstanding performance in the field derives from excellent VSWR (Voltage Standing Wave Ratio), isolation beam squint and tracking. This design ensures minimized intermodulation products, thus substantially enhancing system benefits.

The Powerwave® polarization diversity systems use one antenna with two orthogonal polarizations slanted at $\pm 45^\circ$ to provide the independently fading signals needed for achieving top-quality coverage. As a result of thorough, in-depth research and testing, Powerwave® has produced a variety of designs that ensure the isolation, cross polarization discrimination and orthogonality between inputs needed to achieve the highest possible diversity gain, hence the most efficient system performance.



Key Benefits

- Dual Polarization
- Market Leading Performance
- Light and slim design
- Robust and reliable
- Guaranteed passive intermodulation performance

ANTENNA
SYSTEMS

BASE STATION
SYSTEMS

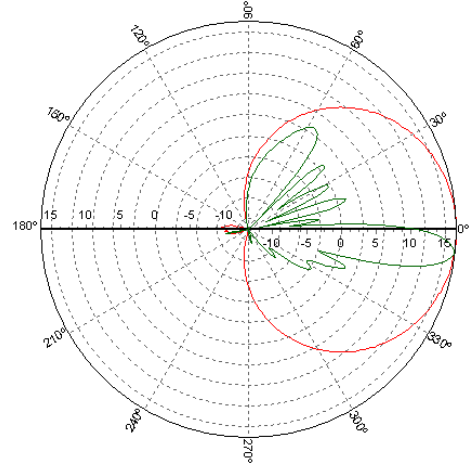
COVERAGE
SYSTEMS

Single Band X-Urban Antenna

880-960 MHz

Electrical Specifications

Frequency Band (MHz)	880 – 960
Gain (dBi / dBd)	16.5 / 14.4
Polarization	Linear slanted $\pm 45^\circ$
Nominal Impedance (Ohm)	50
VSWR	< 1.4:1
Isolation between inputs (dB)	> 30
Horizontal -3 dB beamwidth	65°
Tracking, Horizontal plane (dB)	< 1
Electrical downtilt	6°
Vertical -3 dB beamwidth	9°
First upper sidelobe suppression (dB)	> 15
Vertical beam squint	< 0.3°
Front-to-back ratio, co-polar (dB)	>24
Front-to-back ratio, total power (dB)	>20
Cross-polar discrimination (dB)	>20
Maximum input power (W)	500
IM3, @2x43dBm (dBc)	<-150



Typical Horizontal and Vertical 7255.03 Patterns

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

Mechanical Specifications

Connector Type	7/16 DIN female
Connector Position	Bottom
Dimensions, HxWxD	1940x256x50mm (6'4"x10"x2")
Weight Including Bracket	9kg (20 lbs)
Wind Load, Frontal, 42 m/s, Cd=1	550 N (256 lbf)
Survival Wind Speed	55 m/s (123 mph)
Lightning Protection	DC grounded
Radome Material	PVC
Radome Color	Light gray
Packing Size	2050x308x121mm (6'9"x1'x5")
Shipping Weight	12kg (26.5 lbs)

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

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



©Copyright September 2003, Powerwave Technologies, Inc. All Rights reserved. Powerwave, Powerwave Technologies, The Power in Wireless and the Powerwave logo are registered trademarks of Powerwave Technologies, Inc.

COVERAGE AND CAPACITY

TECHNOLOGY LEADERSHIP

GLOBAL PARTNER

INTEGRATED SOLUTIONS

QUALITY AND RELIABILITY