

Single Band X-Urban Antenna

65° 1.8 m X-polarized FET Antenna

Part Number: 7216.03	Horizontal Beamwidth: 65° Gain: 12.5 dBi / 10.4 dBd	Electrical Downtilt: 0° Connector Type: 7/16 DIN female
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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

- High gain performance
- Light and slim design
- Robust and reliable
- Pre-mounted brackets
- Guaranteed passive intermodulation performance

ANTENNA
SYSTEMS

BASE STATION
SYSTEMS

COVERAGE
SYSTEMS

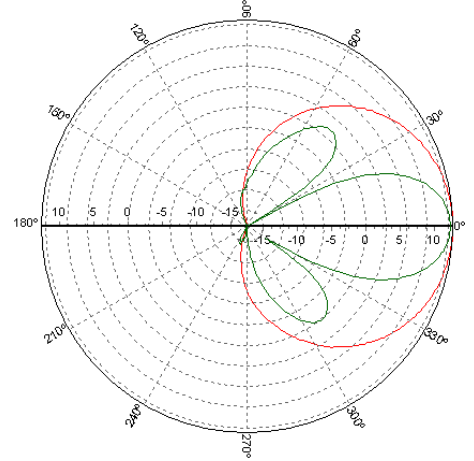
THE POWER IN WIRELESS®

 **Powerwave**
technologies

Single Band X-Urban Antenna

Electrical Specifications

Frequency Band (MHz)	880 – 960
Gain (dBi / dBd)	12.5 / 10.4
Polarization	Linear slanted
Nominal Impedance (Ohm)	50°
VSWR	< 1.3:1
Isolation between inputs (dB)	> 30
Horizontal –3 dB beamwidth	65°
Tracking, Horizontal plane (dB)	< 1
Electrical downtilt	0°
Vertical –3 dB beamwidth	26 °
First upper sidelobe suppression (dB)	> 10
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)	250
IM3, @2x43dBm (dBc)	<-150



Typical Horizontal and Vertical 7216.03 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	1840x126x84mm (6'x5"x3")
Weight Including Bracket	10.9 kg (23.8 lbs)
Wind Load, Frontal, 42 m/s, Cd=1	256N (57 lbf)
Survival Wind Speed	70m/s (156 mph)
Lightning Protection	DC grounded
Radome Material	PVC
Radome Color	Light gray
Packing Size	2010x190x140mm (6' 7"x7"x6")
Shipping Weight	13kg (28.7 lbs)

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