

# 870-960 MHz Single Band Urban Antenna

## Single Band Urban Antenna

870-960 MHz

Part Number:  
7232.04

Horizontal Beamwidth: 90°  
Gain: 15 dBi

Electrical Downtilt: 0°  
Connector Type: 7/16

The Powerwave® Urban Single Band Antenna blends inconspicuously into structural backgrounds due to its slim design. This makes it an ideal choice for built-up areas, whether domestic or commercial. State-of-the-art patch technology allows the antenna's characteristic flat design. Made from corrosion-resistant aluminum and PVC, its exceptionally rugged design reassures you that every Urban antenna we produce provides reliable, lasting service even in the most demanding environments.



870-960 MHz  
Single Band -Urban Antenna

### Key Benefits:

- Market Leading Performance
- Vertical Polarization
- Light Weight
- Reliable Lasting Service

ANTENNA  
SYSTEMS

BASE STATION  
SYSTEMS

COVERAGE  
SYSTEMS

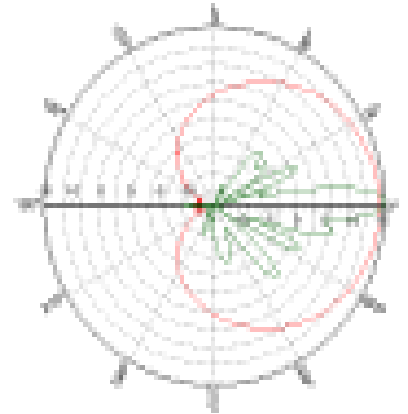
870-960 MHz



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### Electrical Specifications

|   |                 |
|---|-----------------|
| Frequency Range (MHz)                       | 870 – 960       |
| Polarization                                | Linear vertical |
| Gain, co-polar (dBi)                        | 15              |
| Nominal Impedance (Ohm)                     | 50              |
| VSWR, TX                                    | <1.3:1          |
| VSWR, RX                                    | <1.4:1          |
| Horizontal –3 dB beamwidth                  | 90° +/-5        |
| Vertical –3 dB beamwidth                    | 9°              |
| Electrical downtilt                         | 0°              |
| Vertical beam squint                        | <0.5°           |
| Front-to-back ratio, co-polar (dB)          | >20             |
| First upper sidelobe suppression (dB)       | >15             |
| First Null below horizon (dB)               | >15             |
| Maximum input power (W)                     | 500             |
| IM, 3 <sup>rd</sup> order, 2 Tx@43dBm (dBc) | <-150           |



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

### Mechanical Specifications

|                                     |                             |
|-------------------------------------|-----------------------------|
| Connector type                      | 7/16                        |
| Connector position                  | Bottom                      |
| Dimensions, HxWxD                   | 1940x160x55mm (6'4"x6"x2")  |
| Weight, including brackets          | 10kg (22 lbs)               |
| Wind load, frontal, 42 m/s Cd=1 (N) | 340                         |
| Survival wind speed (m/s)           | 55                          |
| Lightning protection                | DC grounded                 |
| Radome material                     | PVC                         |
| Radome color                        | Light gray*                 |
| Packing size                        | 2050x216x156mm (6'9"x9'x6") |
| Shipping weight                     | 12kg (26.5 lbs)             |

### Comments

Gain is typical within frequency band.  
Sidelobe suppression and null fill is relative to peak of main beam.  
Front-to-back ratio is defined within 20° from the backwards direction in any plane.  
Radiation patterns are typical for the antenna  
Shipping weight including tilt brackets. Antenna is delivered with brackets premounted  
\*Radome color is NCS 2502-B (RAL 7035).

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COVERAGE AND CAPACITY

TECHNOLOGY LEADERSHIP

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QUALITY AND RELIABILITY