C-Band Integrated Directional Antenna
WR-INT-ANT-SYS-07

Extended Coverage. Maximum Performance

The power of the Wave Relay® MANET integrated directly into an antenna extends the enterprise to the edge and over large geographic areas.

Simple Installation
- Wave Relay® MANET integrated directly into antenna
- No external RF cabling reduces hassle and loss of gain
- Simple mounting bracket for quick setup
- One cable for Power + Data
- Multi-angle, locking pointing arm for accurate and precise links

More Data over Longer Ranges
- MIMO technology delivers high throughput at long range
- Custom antenna polarization designed to maximize radio performance
- No external RF cabling allows you to leverage the full gain of the antenna
- High throughput allows you to extend the enterprise to the network edge

Made for Durability
- Built for long-term installation on towers, buildings, and poles
- IP66 rated to protect against weather
- Weatherized Ethernet connector means you don’t have to climb towers in inclement weather to adjust configuration

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SYSTEM SPECIFICATIONS

**RF**
- **Frequency**: 4.4 - 5.0 GHz
- **Polarization**: Horizontal & Vertical
- **Gain**: 23.0 dBi
- **Transmit Power**: 4W
- **Port-to-Port Isolation**: >30 dB
- **Horizontal Beamwidth (-3 dB)**: 11°
- **Vertical Beamwidth (-3 dB)**: 11°

**Physical**
- **Dimensions**: 15.6 x 14.4 x 5.2 in.
  39.6 x 36.5 x 13.2 cm
- **Weight (Integrated Antenna Only)**: 9.25 lbs.
  4.2 kg
- **Mounting**: Accepts up to 3 in. pole diameter

**Environmental**
- **Operating Temperature**: -40°C to +60°C

**I/O**
- **Interfaces**: Power + Ethernet (IP66 RJ45)

**Electrical**
- **Lightning Protection**: Integral surge suppression
- **Power Input**: 100 - 240 VAC 50/60 Hz
  24 - 48 VDC
- **Peak Power Consumption**: 47W
- **20% Duty Cycle Power Consumption**: 14.3W

**Android™ Computer**
- **Operating System**: Android™ 6.0 – Marshmallow
- **Processor**: 1 GHz Quad Core ARM
- **RAM**: 2GB
- **Storage**: 32GB Flash

**Networking**
- **Ethernet**: 10/100 Mbps
- **Integration and Extension**: Seamless layer 2 network
- **Protocols**: Advanced multicast algorithms
  IPv4 and IPv6 compatible
  Integrated DHCP server

**MANET**
- **Wave Relay®** Self-Forming/Healing
- **Peer-to-Peer**: No Master Node
- **Node Entry Time**: <1 sec.
- **Max. Number of Hops**: No Limit
- **Max. Number of Nodes**: No Limit
- **Max. Distance between Nodes**: 130 mi

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**Azimuth (Red) and Elevation (Blue) Pattern for Vertical & Horizontal Polarized Elements**
Referenced to +15 dBi