C-Band Integrated Sector Antenna
WR-INT-ANT-SYS-05

Simple Installation. Maximum Performance
The power of the Wave Relay® MANET integrated directly into an antenna.

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
▪ Adjustable downtilt for complete coverage

More Data over Wide Areas
▪ 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 blanket large geographic areas with coverage

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
# SYSTEM SPECIFICATIONS

## RF
- **Frequency**: 4.4 - 5.0 GHz
- **Polarization**: Slant L/R & Vertical
- **Gain**: 12 dBi
- **Transmit Power**: 6W
- **Port-to-Port Isolation**: >30 dB
- **Horizontal Beamwidth (-3 dB)**: 120°
- **Vertical Beamwidth (-3 dB)**: 12°

## 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**: 65W
  - **20% Duty Cycle Power Consumption**: 18.5W

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

## MANET
- **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

## Physical
- **Dimensions**: 16.5 x 10 x 5.6 in., 41.9 x 25.4 x 14.2 cm
- **Weight (Integrated Antenna Only)**: 8.75 lbs., 4 kg
- **Mounting**
  - 1” to 2” Pole Mounting Kit
  - 0° to -15° Elevation Downtilt Adjustment

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

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

## Security
- **Crypto Modes**
  - CTR-AES-256 Encryption
  - SHA-256 HMAC
- **Hardware**
  - Cryptographic Acceleration
  - Suite-B Algorithms

## Networking
- **Ethernet**
- **IoT**
- **Network**
- **Security**
- **System**

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