



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
- Adjustable elevation 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

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

1" to 2" Pole Mounting Kit

+10° to -15° Elevation Adjustment

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

Security

Crypto Modes

CTR-AES-256 Encryption

SHA-256 HMAC

Hardware

Cryptographic Acceleration

Suite-B Algorithms

Networking

Ethernet

10/100 Mbps

Integration and Extension

Seamless layer 2 network

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

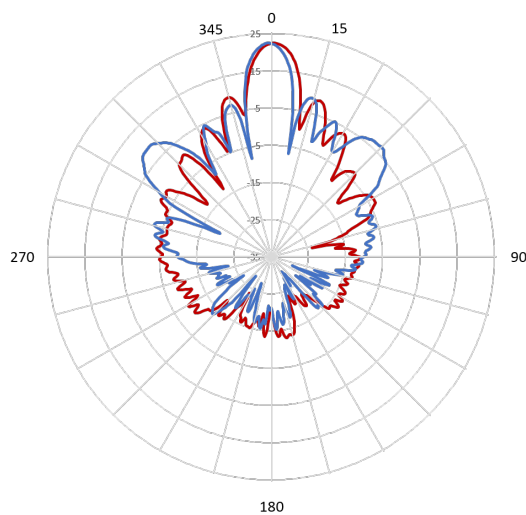
No Limit

Max. Number of Nodes

No Limit

Max. Distance between Nodes

130 mi



Azimuth (Red) and Elevation (Blue) Pattern for Vertical & Horizontal Polarized Elements