

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

NO NDA REQUIRED

© 2006 - 2023 Persistent Systems, LLC. All rights reserved. The Wave Relay® logo, the Persistent Systems, LLC logo and other designated trademarks and trade names are the property of Persistent Systems, LLC or their respective owners. Product specifications are subject to change without notice. This material is provided for informational purposes only; Persistent Systems, LLC assumes no liability related to its use and expressly disclaims any implied warranties of merchantability or fitness for any particular purpose.

The export and/or the release of certain products, technology and software to non-US persons might be subject to export restrictions. Please refer to the US export laws & regulations for details.

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™ 9 – Pie

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

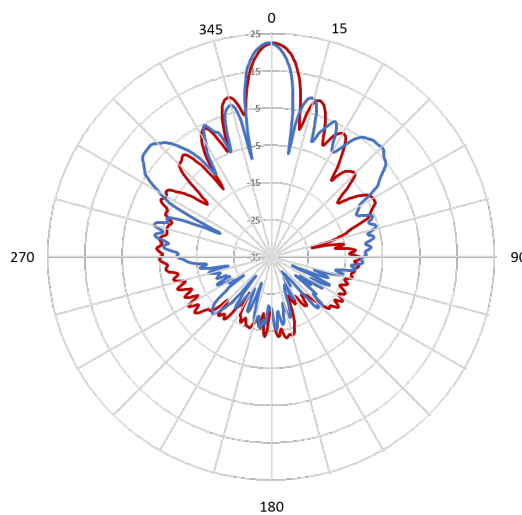
No Limit

Max. Number of Nodes

No Limit

Max. Distance between Nodes

130 mi



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

NO NDA REQUIRED

© 2006 - 2023 Persistent Systems, LLC. All rights reserved. The Wave Relay® logo, the Persistent Systems, LLC logo and other designated trademarks and trade names are the property of Persistent Systems, LLC or their respective owners. Product specifications are subject to change without notice. This material is provided for informational purposes only; Persistent Systems, LLC assumes no liability related to its use and expressly disclaims any implied warranties of merchantability or fitness for any particular purpose.

The export and/or the release of certain products, technology and software to non-US persons might be subject to export restrictions. Please refer to the US export laws & regulations for details.