PERSISTENT SYSTEMS

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 downtilt for complete coverage

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 certified to protect against weather
- Weatherized Ethernet connector means you don't have to climb towers in inclement weather to adjust configuration

NO NDA REQUIRED

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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

Computing

Operating System
Wave Relay OS
Processor
1 GHz Quad Core ARM
RAM
2GB
Storage
32GB Flash

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

Environmental

Operating Temperature
-40°C to +60°C
Ingress Protection
IP66 Certified

I/O

Interfaces
Power + Ethernet (IP66 RJ45)

MANET

MANET
Wave Relay® MANET
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

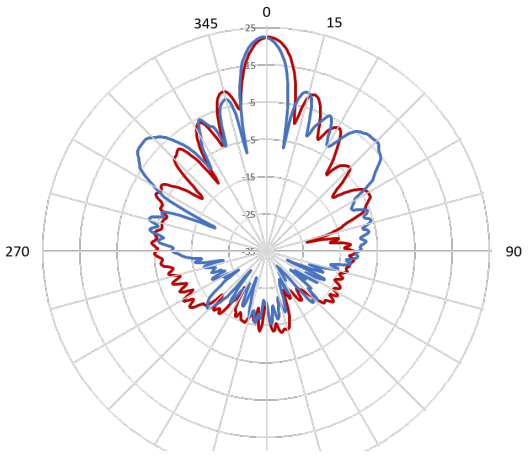
Networking

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

Security

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

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



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