



S-Band Integrated Sector Antenna

WR-INT-ANT-SYS-01

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 blanket large geographic areas with coverage.

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

2.2 - 2.5 GHz

Polarization

Slant L/R & Vertical

Gain

12 dBi

Transmit Power

10W

Port-to-Port Isolation

>30 dB

Horizontal Beamwidth (-3 dB)

120°

Vertical Beamwidth (-3 dB)

11°

Physical

Dimensions

26 x 16.7 x 5.9 in.

66 x 42.5 x 15 cm

Weight (Integrated Antenna Only)

10 lbs.

4.5 kg

Mounting

1" to 2" Pole Mounting Kit

0° to -15° Elevation Downtilt 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

45W

20% Duty Cycle Power Consumption

12.1W

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

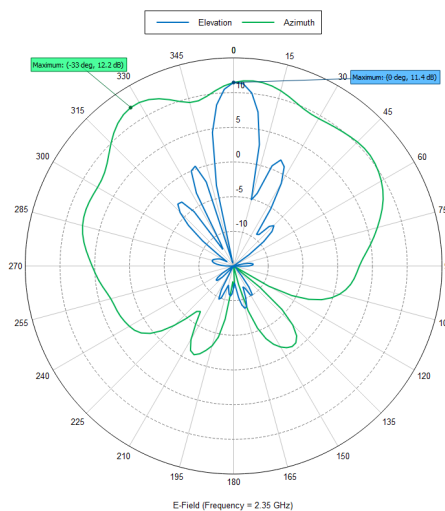
SHA-256 HMAC

Hardware

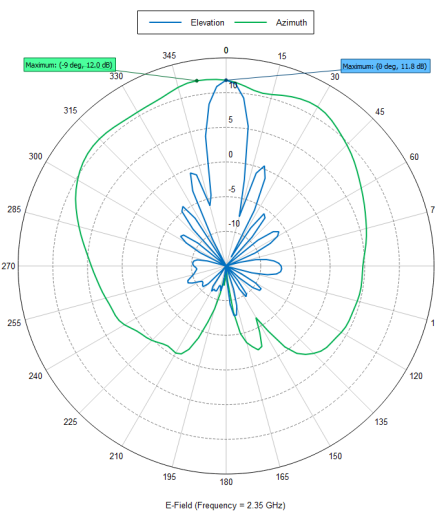
Cryptographic Acceleration

Suite-B Algorithms

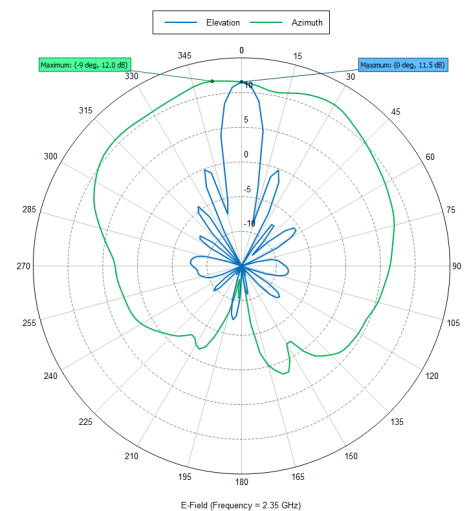
Azimuth (Green) and Elevation (Blue) Pattern for Vertical Polarized Element



Azimuth (Green) and Elevation (Blue) Pattern for Slant Left Polarized Element



Azimuth (Green) and Elevation (Blue) Pattern for Slant Right Polarized Element



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