



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 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

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

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

45W

20% Duty Cycle Power Consumption

12.1W

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

