L-Band Integrated Sector Antenna
WR-INT-ANT-SYS-08

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
1.35 - 1.39 GHz
Polarization
Slant L/R & Vertical
Gain
12 dBi
Transmit Power
10W
Port-to-Port Isolation
>30 dB
Horizontal Beamwidth (-3 dB)
90°
Vertical Beamwidth (-3 dB)
40°

**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

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**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

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NO NDA REQUIRED

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