THE SECTOR ARRAY ROUTER PROVIDES LONG RANGE, HIGH THROUGHPUT, AND SUPERIOR DEPLOYMENT FLEXIBILITY.

The Sector Array Antenna is the solution to long range omni-directional coverage while maintaining high throughput with easy deployment. The Sector Array houses three independent antennas, providing 360° horizontal and wide vertical coverage. Each antenna covers a 120° area and RF transmissions are directed towards the destination which minimizes interference and maximizes the capacity of the network. This same design also facilitates efficient reception & rejection utilizing three radio modules in the Quad Radio Router maximize communication per sector. The vertical beam width is ideal for vehicular & maritime networks, allowing data to stream without interruption even under the most challenging conditions.

- Peer-to-Peer Mobile Ad Hoc Network (MANET)
- Secure High Bandwidth Data
- Transfers Data, Video, & Voice
- Multiple Video Streams
- Real-time Position Location
- Push To Talk (PTT) Voice
- Wave Relay® over IP (WRoIP)
- 27Mbps Multicast Throughput
- Cloud Relay™ Compatible
SECTOR ARRAY RADIO ROUTER

SPECIFICATIONS

2.4 GHz Sector Array
- Frequency: 2312 - 2507 MHz
- Range: 10 Miles 600 mW, 17 Miles 2W*
- Throughput: 31.1 Mbps TCP (20 MHz Channel)
- Weight: 13.2 lbs / 6 kg
- Size: 6” Diameter, 29” Length
- VSWR: 2.0:1

5 GHz Sector Array
- Frequency: 5180-5320, 5500-5700, 5745-5825 MHz
- Range: 10 Miles
- Throughput: 31.1 Mbps TCP (20 MHz Channel)
- Weight: 9.2 lbs / 4.2 kg
- Size: 4” Diameter, 24” Length
- VSWR: 2.0:1

MECHANICAL
- Sector Array (3) N-Type Female connectors
- Quad Radio Router (4) N-Type Female
- GPS (1) SMA Female
- Voice NATO Standard U-283/U 6-Pin Audio connector
- Serial (1) 4-Pin RS-232 Serial
- Mounting Pole, Wall, or Magnetic Mount
- Ethernet IP67 10/100 Mbps with Auto MDI
- Port 1 – Power and Ethernet
- Ports 2-5 – Ethernet Only
- Mounting Pole, Wall, or Magnetic Mount

RADIO
- OFDM with Adaptive Modulation Algorithms
- Channel Width 5, 10, 20 or 40 MHz
- Variable power setting
- Support for various RF bands
- Peer to peer with other Quads or MPU’s

ENVIRONMENTAL
- Operating Temperature: -40° to 85° C
- Cooling: Convection cooled with integrated thermal transfer plates

NETWORKING
- Seamless layer 2 network connectivity
- Industry leading Wave Relay® MANET routing
- 802.11a/b/g AP compatible with MANET
- Integrated serial-to-Ethernet capability
- Cursor-on-Target compatible
- Wave Relay® over IP (WRoIP)
- Dynamic Link Exchange Protocol (DLEP) Certified
- IPv4 and IPv6 compatible
- Integrated DHCP server
- Advanced multicast algorithms

SECURITY
- Integrated hardware cryptographic accelerator
- FIPS 140-2 (Up to level 2)
- Utilizes all Suite B algorithms
- Anti-tamper mechanisms
- AES-CTR-256 with SHA-512 HMAC
- Over the air re-keying

NATIVE VOICE CAPABILITY
- Supports up to 16 channels of Push-to-talk (PTT) Voice
- G.711 codec with toll-quality audio

MANAGEMENT
- Secure web management interface
- Network wide management and configuration functionality
- Google™ Earth based network monitoring

MANUFACTURING & WARRANTY
- Designed and manufactured in USA
- Limited one year warranty
- Monthly training classes available
- Courses led by industry experts
- ISO 9001:2008 certified
- MIL-STD certified

* For Military or Export Use Only

Also available in 2W* 2.3-2.5GHz*, providing 3dB more per sector. *Available only for government customers.

**Shown is for only 1 of the 3 120 degree sectors arranged in a 360 degree coverage.