

EtherWave

Industrial-Grade Wireless Ethernet Radios



EtherWave-WER2



EtherWave-WMR-900

- LONG RANGE 900MHz ETHERNET MULTIFUNCTION RADIOS
- WEB BROWSER CONFIGURATION AND DIAGNOSTICS
- PLUG & PLAY OPERATION - MINIMAL PROGRAMMING
- LOW POWER CONSUMPTION, NO FCC LICENSE REQUIRED
- CLASS 1, DIV 2. VERSIONS AVAILABLE

HIGH RF OUTPUT POWER

Maximum Distance and Obstacle Penetration without a license

HIGH RELIABILITY

Proprietary 900MHz system reduces interference from other devices (WiFi, etc.)

HIGH SECURITY

128/256-bit AES Encrypted Payload Protection (with private keys)

FLEXIBLE OPERATION

Radios configurable as Access Points, Client Nodes, or Repeaters

HIGH BANDWIDTH

Simultaneous transmissions on 12 non-overlapping channels (@ 1.5Mb/channel)

COMPACT PACKAGING

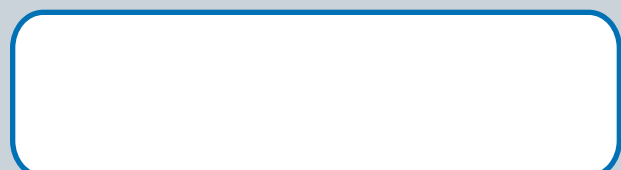
High Density DIN-rail and Panel Mount Packages for easy installation

INDUSTRIAL SPECS

Operating Temperature Range:
-40°C to +70°C

POWER OVER ETHERNET

Units Support Power-over-Ethernet (PoE) from 9-48VDC



KEY COMPONENTS

DESCRIPTION

ORDERING INFORMATION

ETHERWAVE-WER-2 900MHz WIRELESS ETHERNET MULTI-POINT RADIO



EtherWave-WER-2 allow you to build long range, non line-of-sight, wireless Ethernet connections that can enable fringe Ethernet devices, including SCADA clients, remote instruments, PTZ Ethernet cameras, etc. Point-to-point or Point-to-Multipoint system designs are supported using multiple WER-2 units. Units come standard in a compact DIN rail mount enclosure.

- ETHERWAVE-WER-2 900MHz Wireless Ethernet Multi-Point Radio

Accessories:

- IOS-WAC-Y6 Yagi Antenna (6dB), N Female
- IOS-WAC-OMNI6P Omni Antenna (6dB), N Female, Pole Mount (includes pole mount kit)
- IOS-WAC-OMNI3E Omni Antenna (3dB), N Female, Enclosure Mount
- IOS-WAC-LPG Lightning Protector
- IOS-WAC-RG58-03 RF Cable (3'), RSMA Male-to-N Male
- IOS-WAC-LMR400-025 LMR400 RF Cable (25'), N Male-to-N Male, Low loss

ETHERWAVE-WMR 900MHz WIRELESS ETHERNET MULTI-POINT RADIO/REPEATER/GATEWAY (MANAGED)



EtherWave-WMR-900 provide the same functionality as EtherWave-WER-900 units, with the added functionality of being a fully manageable device via a standard Web browser or via an SNMP management console (like HP OpenView). The unit can also act as a network repeater, or a wireless serial (232/422/485) to Ethernet gateway, making the EtherWave-WMR the 'one-box' solution for Industrial Wireless Ethernet connectivity.

- ETHERWAVE-WMR-900 900MHz Wireless Ethernet Multi-Point Radio (Managed)

Accessories:

- IOS-WAC-Y6 Yagi Antenna (6dB), N Female
- IOS-WAC-OMNI6P Omni Antenna (6dB), N Female, Pole Mount (includes pole mount kit)
- IOS-WAC-OMNI3E Omni Antenna (3dB), N Female, Enclosure Mount
- IOS-WAC-LPG Lightning Protector
- IOS-WAC-RG58-03 RF Cable (3'), RSMA Male-to-N Male
- IOS-WAC-LMR400-025 LMR400 RF Cable (25'), N Male-to-N Male, Low loss

ETHERWAVE PACKAGING OPTIONS



ioSelect provides a wide variety of packaging and integration options for the EtherWave products. A family of integrated enclosures, compete with integrated antenna and power supply options (including solar power options) provides you with a complete 'single box' solution that is best suited for your application and power requirements. Contact ioSelect today for more information.

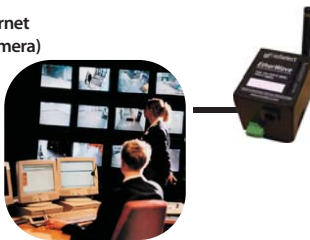
Packaging and Integration Accessories:

- IOS-WAC-ENCL01-E NEMA4 Polycarbonate Enclosure with Power Supply, Lighting Protector, & Enclosure Mounted Omni Antenna (includes integration)
- IOS-WAC-ENCL02-E NEMA4 Metal (lockable) Enclosure with Power Supply, Lighting Protector, & Enclosure Mounted Omni Antenna (includes integration)
- IOS-WAC-ENCL01-B Same as IOS-WAC-ENCL01-E with external antenna connector
- IOS-WAC-ENCL02-B Same as IOS-WAC-ENCL02-E with external mount antenna connector
- EWAVE-SOLARKIT NEMA4 Enclosure with Complete Solar Kit to power single EtherWave unit

OPERATING MODE EXAMPLES

Ethernet Bridge Mode:

Connection of a single Ethernet device (such as a remote camera) back to a central location.



Control Room

Up to 20 Miles (Line of Sight)



P/T/Z Ethernet Camera

Point to Multi-Point Ethernet Mode:

Connection of multiple Ethernet devices (such as SCADA nodes, etc.) back to a central location



Control Room

Up to 20 Miles (Line of Sight)



RTU/PLC



P/T/Z Ethernet Camera



RTU/PLC