**EtherWave**

Industrial-Grade Wireless Ethernet Radios

- **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

**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

www.ioselect.com
EtherWave Industrial Wireless Ethernet

**KEY COMPONENTS**

**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-Multipooint system designs are supported using multiple WER-2 units. Units come standard in a compact DIN rail mount enclosure.

- **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.

- **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 mount antenna connector
  - IOS-WAC-ENCL02-B Same as IOS-WAC-ENCL02-E with external mount antenna connector
  - EWWAVE-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
- P/T/Z Ethernet Camera
- RTU/PLC

**Point to Multi-Point Ethernet Mode:**
Connection of multiple Ethernet devices (such as SCADA nodes, etc.) back to a central location.

- Control Room
- P/T/Z Ethernet Camera
- RTU/PLC