



The NetWave® NWK(1,2)[IC] Industrial Grade high performance wireless transmission kit includes a Client and an Access Point. These radios kits are ideal for high capacity and scalable deployments where channel overlapping and interference typically cause our discounted competitors radios to become unstable. The wide range of channel spectrum widths available on the NWK(1,2)[IC] series of radios gives you the option of narrowing channel bandwidths as your network grows which will increase the number of non-overlapping channels and improve stability.

The NWK(1,2)[IC] comes standard with an integrated antenna and an IP67 rated impact resistant polycarbonate enclosure that is designed to survive the most extreme conditions. The NWK1 is FCC certified for use in the United States. The NWK2 is ETSI, DFS and TPC certified for use in the European Union. The NWK1IC is certified for use in Canada.

FEATURES

- › New and improved impact resistant polycarbonate enclosure
- › Up to 500 Mbps Throughput (subject to environmental conditions)
- › 20, 40, and 80 Mhz Channel Bandwidth Support
- › 802.11a/n/ac Compliant
- › Distances up to 2 mi (FCC, IC) or 2 km (ETSI)
- › IEEE802.3at PoE Compliant PD on port 1
- › IEEE802.3af power source (PSE) available on port 2
- › Environmentally Hardened -40° to +75°C
- › Meets class IP67 dust and water immersion protection standards
- › Secure transmission: WPA2 - AES or TKIP encryption
- › ComNet Antenna alignment feature eases installation and setup
- › Antenna Alignment Tools
- › LED array displays unit operational status along with received signal strength
- › Firmware Upgrades Included Free for the life of the product
- › Installation and Configuration Trainings Available
- › Radio Internal Components covered by Lifetime Warranty.
- › *Enclosure covered by Three Year Warranty.

APPLICATIONS

- › High-Bandwidth Video Surveillance
- › Multipurpose Networks
- › ITS Applications

SPECIFICATIONS

Software Features

| | |
|---|---------------------------------------|
| Addressing | Static IP / DHCP Client / DHCP Server |
| SNMP | V3 |
| Dynamic DNS | 802.1q VLAN support |
| Embedded Firewall | QoS support |
| Ability to Assign Static Routes | |
| Spanning Tree Protocol support | |
| 802.1x Port-Based Network Access Control | |
| User-Configurable Watchdog and Auto-Reboot Mechanism | |
| Multi-Level Configuration and Monitoring Login Accounts | |
| User Configurable Long Range Parameters | |

Wireless Radio

| | |
|-----------------------|---|
| EIRP | NWK1 (FCC, IC): Up to +36 dBm for point to multipoint deployments, +49 dBm for point to point deployments with MAC-lock feature enabled NWK2 (ETSI): +30 dBm |
| RF Output | +30 dBm Rated Transmitter |
| Operational Frequency | 5180 MHz - 5825 MHz, Region-dependent. Not all frequencies are supported in all regions. Contact ComNet for frequencies supported in your region. |
| Bandwidths | 20, 40, and 80 Mhz |

Standard Internal Antenna

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|-----------|--|
| Antenna | Internal 20 dBi Dual Polarized Directional |
| Gain | 20 dBi |
| Azimuth | 17° Horizontal/Vertical |
| Elevation | 17° Horizontal/Vertical |

Connectors

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|------------------|----------------------------------|
| Gigabit Ethernet | Port 1 RJ-45, Sealed Cable Gland |
| 10/100 Ethernet | Port 2 RJ-45, Sealed Cable Gland |

Power

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|-------------------|--|
| Power Consumption | 5 W Max |
| PD Power | IEEE802.3af/at pass-through PD compliant |
| PSE Power | IEEE802.3af PSE compliant uplink |

Mechanical

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|------------------|---|
| Indicating LEDs | Power On Ethernet Link Signal Strength |
| Size (L x W x H) | 10.6 x 10.6 x 2.9 in (27 x 27 x 7.5 cm) |
| Shipping Weight: | < 4.4 lb / 2 kg |

Environmental

| | |
|-------------------|--|
| MTBF | >100,000 hours |
| Operating Temp | -40° C to +75° C |
| Storage Temp | -40° C to +85° C |
| Relative Humidity | 5% to 95%, non-condensing ¹ |
| Wind Load | 132N(Front) at 200 km/h |

Warranty

| | |
|---------------------|----------|
| Internal Components | Lifetime |
| Enclosure | 3 Year |

NOTE: In a continuing effort to improve and advance technology, product specifications are subject to change without notice.



Low Power Consumption

ORDERING INFORMATION

| Part Number | Description |
|---------------------------------|---|
| NWK1 | Industrially Hardened Point-to-Point Wireless Ethernet Kit, Supports distances up to 2 mi/3.2 km, FCC certified for North America |
| NWK2 | Industrially Hardened Point-to-Point Wireless Ethernet Kit, Supports distances up to 2 km/1.25 mi, ETSI certified for European Union |
| NWK1IC | Industrially Hardened Point-to-Point Wireless Ethernet Kit, Supports distances up to 2 km/1.25 mi, IC certified for Canada |
| Included Accessories | Pole Mounting Hardware Kit |
| Options | NWBKT - Articulating Wall or Pole Mounting Kit. Supports up to 3in/76mm diameter poles. (Sold Separately) |
| (Extra charge, consult factory) | CNGE1IPS - Hardened 35 W Midspan 1 Gbps Power Injection Module for Passthrough PoE Applications supporting 90-264V AC Input and 56V DC Output [1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory) |

TYPICAL APPLICATION

