

Industrially Hardened High Performance Point-to-Point Wireless Kit for High Density Environments

NWK(1,2)[IC]



















The NetWave® NWK(1,2)[IC] Industrial Grade high performance point-to-point wireless radio kit is 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

- > Narrow Channel Spectrum Widths for large and noisy deployments
- > 5, 10, 20 and 40 Mhz Channel Bandwidth Support
- > Up to 240 Mbps Throughput
- > 802.11a/n Compliant
- > Distances up to 2 mi (FCC, IC) or 2km (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
- > RF Spectrum Survey Tools

- > Antenna Alignment Tools
- > LED array displays unit operational status along with received signal strength
- > Scalable Narrow Channel 5 and 10 MHz Bandwidths will allow you to expand your WLAN without losing reliability by increasing the total number of non-overlapping channels
- > Firmware Upgrades Included Free for the life of the product
- > Installation and Configuration Trainings Available
- > Radio Internal Components covered by Lifetime Warranty.
- > Enclosures covered by Three Year Warranty.

APPLICATIONS

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

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SPECIFICATIONS

Software Features

Addressing Static IP / DHCP Client / DHCP Server

SNMP V3 Telnet Server Syslog

Dynamic DNS 802.1q VLAN support
Embedded Firewall QoS support
Ability to Assign Static Routes NTP Client

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 5, 10, 20 and 40 MHz

Standard Internal Antenna

Antenna Internal 20 dBi Dual Polarized Directional

Gain 20 dBi

Azimuth 17° Horizontal/Vertical Elevation 17° Horizontal/Vertical

Connectors

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

Power

Operating Voltage 24 to 56 VDC Power Consumption 5 W Max

PD Power IEEE802.3af/at pass-through PD compliant PSE Power IEEE802.3af PSE compliant uplink

Mechanical

Indicating LEDs Power On Ethernet Link Signal Strength Size (L \times W \times H) 10.6 \times 10.6 \times 2.9 in (27 \times 27 \times 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-condensing¹

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.





ORDERING INFORMATION

Part Number Description

NWK1 Industrially Hardened Narrow Bandwidth Wireless Radio Point-to-Point Kit, Supports distances up to 2 mi/3.2 km, FCC certified for North America

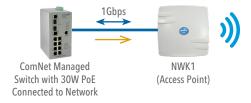
NWK2 Industrially Hardened Narrow Bandwidth Wireless Radio Point-to-Point Kit,, Supports distances up to 2 km/1.25 mi, ETSI certified for European Union

NWK1IC Industrially Hardened Narrow Bandwidth Wireless Radio Point-to-Point Kit, Supports distances up to 2 mi/3.2 km, IC certified for Canada

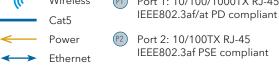
Included Accessories Pole Mounting Hardware Kit

Options [1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)

TYPICAL APPLICATION









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