Industrially Hardened High Performance Outdoor Wireless Bridge



NWK(1,2)[IC]

















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

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

5180 MHz - 5825 MHz, Region-dependent. **Operational Frequency**

> Not all frequencies are supported in all regions. Contact ComNet for frequencies supported in your

Bandwidths 20, 40, and 80 Mhz

Standard Internal Antenna

Antenna Internal 20 dBi Dual Polarized Directional

Gain

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

Operating Power 48 to 57 VDC @ 170 mA

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 $(L \times W \times H)$ $10.6 \times 10.6 \times 2.9 \text{ in } (27 \times 27 \times 7.5 \text{ cm})$

Shipping Weight: < 4.4 lb / 2 kg

Environmental

MTBF >100,000 hours -40° C to +75° C **Operating Temp** -40° C to +85° C Storage Temp

Relative Humidity 5% to 95%, non-condensing¹ 132N(Front) at 200 km/h Wind Load

Warranty

Internal Components Lifetime Enclosure 3 Year

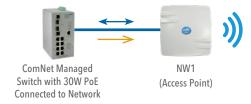
NOTE: In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

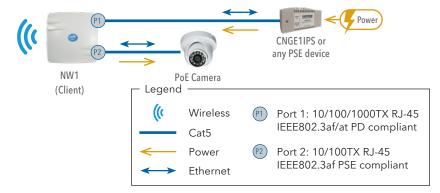


ORDERING INFORMATION

Part Number	Description
NWK1	Industrially Hardened 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,	CNGE1IPS - Hardened 35 W Midspan 1 Gbps Power Injection Module for Passthrough PoE Applications supporting 90-264V AC Input and 56V DC Output
consult factory)	[11 Add suffix 1/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)

TYPICAL APPLICATION





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