

# 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

AddressingStatic IP / DHCP Client / DHCP ServerSNMPV3Dynamic DNS802.1q VLAN supportEmbedded FirewallQoS supportAbility to Assign Static RoutesSpanning Tree Protocol support802.1x Port-Based Network Access ControlUser-Configurable Watchdog and Auto-Reboot MechanismMulti-Level Configuration and Monitoring Login AccountsUser 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**

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

### Connectors

Gigabit Ethernet 10/100 Ethernet

#### Power

Power Consumption

PD Power

## PSE Power Mechanical

Indicating LEDs Size (L × W × H) Shipping Weight:

#### Environmental

MTBF Operating Temp Storage Temp Relative Humidity Wind Load

## Warranty

Internal Components Enclosure Port 1 RJ-45, Sealed Cable Gland Port 2 RJ-45, Sealed Cable Gland

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

Power On Ethernet Link Signal Strength 10.6 × 10.6 × 2.9 in (27 × 27 × 7.5 cm) < 4.4 lb / 2 kg

>100,000 hours
-40° C to +75° C
-40° C to +85° C
5% to 95%, non-condensing <sup>1</sup>
132N(Front) at 200 km/h

Lifetime 3 Year

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

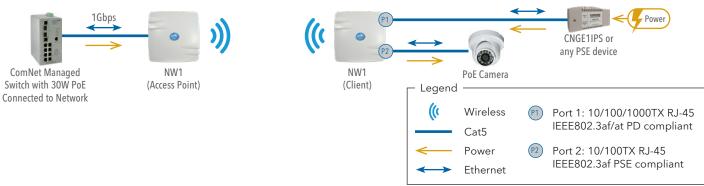




# **ORDERING INFORMATION**

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

# TYPICAL APPLICATION



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24 Feb 2021