

Mini Industrially Hardened High Performance Outdoor Wireless Bridge

NWK(1,2)[IC]/M













The NetWave® NWK(1,2)[IC]/M industrially hardened wireless Ethernet transmission kit includes a Client and an Access Point. The NWK1[IC]/M and NWK2/M support up to 500 Mbps throughput using MIMO technology. The units can be powered by an IEEE 802.3af PoE compliant device or through an optional power injection module. The NWK1/M is FCC certified for use in North America, the NWK1IC/M is IC certified for use in Canada, and the NWK2/M is ETSI, DFS, and TPC certified for use in the European Union. This mini unit come in an ultra-small form factor that is a new addition to the ComNet NetWave product family.

FEATURES

- > New and improved impact resistant polycarbonate enclosure
- > 20, 40, and 80 MHz Channel Bandwidth Support
- Up to 500 Mbps Throughput (subject to environmental conditions)
- > 802.11a/n/ac Compliant
- > Distances up to 2 mi (FCC, IC) or 2km (ETSI)
- > IEEE802.3at PoE Compliant PD on port 1
- > Environmentally Hardened -40° to +75°C
- > Meets class IP67 dust and water immersion protection standards
- > ETSI Standards (EU Region only):
- DFS Dynamic Frequency Selection
- TPC Transmit Power Control
- > 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
- > Radio Internal Components covered by Lifetime Warranty.
- > Enclosure covered by Three Year Warranty.

APPLICATIONS

- Simple to deploy and cost-effective alternative to physical connections to Ethernet edge equipment
- Integration of Ethernet where right-of-way issues mandate wireless communications
- ITS traffic signalization networks and Video Detection Systems (VDS)
- > ITS roadside and city center CCTV surveillance, and surveillance of high-value or mission-critical assets
- › Wireless communications in manufacturing, petrochemical refineries, wastewater treatment facilities, and other industrial automation and control applications operating in harsh or out-of-plant environments
- > Electrical substation video and perimeter surveillance

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SPECIFICATIONS

Wireless Radio

FIRP NWK1[IC]/M (FCC, IC): Up to +36dBm for point

> to multipoint deployments, +42dBm for point to point deployments with MAC-lock feature enabled

NWK2/M (ETSI): +30dBm

RF Output +26dBm Rated Transmitter

5180MHz - 5825MHz, 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 16dBi Dual Polarized Directional

16dRi Gain

30° Horizontal/Vertical Azimuth Elevation 30° Horizontal/Vertical

Connectors

10/100/1000 Ethernet RJ-45, Sealed Cable Gland

Indicating LEDs Power On, Ethernet Link, Signal Strength

Software Features

Addressing Static IP / DHCP Client / DHCP Server

SNMP

Dynamic DNS 802.1q VLAN support

QoS support **Embedded Firewall**

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

Power

Power Consumption 5 W Max

PD Power IEEE802.3af PD compliant

Mechanical

Indicating LEDs Power On Ethernet Link Signal Strength Size $(L \times W \times H)$ $7.4 \times 7.4 \times 2.2$ in $(18.5 \times 18.5 \times 5.6$ cm)

Shipping Weight <7.7 lb / 3.5 kg

Environmental

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

Relative Humidity 5% to 95%, non-condensing1 Wind load 62N(Front) at 200 km/h

Warranty

Internal Components Lifetime Enclosure 3 Year





ORDERING INFORMATION

Part Number Description

NWK1/M Industrially Hardened Mini Point-to-Point Wireless Ethernet Kit, Supports distances up to 2 mi/3.2 km, FCC certified for North America NWK2/M Industrially Hardened Mini Point-to-Point Wireless Ethernet Kit, Supports distances up to 2 km/1.25 mi, ETSI certified for European Union

NWK1IC/M Industrially Hardened Mini 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 [1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions

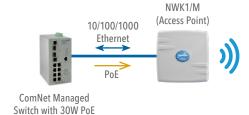
CNGE1IPS - Hardened 35 W Midspan 1 Gbps Power Injection Module for Passthrough PoE Applications supporting 90-264 VAC Input and 56 VDC Output (Extra charge,

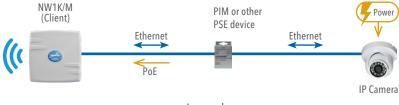
NOTE: In a continuing effort to improve and advance technology, product specifications are subject to change without notice.

TYPICAL APPLICATION

consult factory)

Connected to Network







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