

Industrially Hardened Point-to-Multipoint Wireless Ethernet Link

NW1/NW2





The NetWave® industrially hardened wireless Ethernet transmission link can be configured through the embedded User Interface as a Client or as an Access Point. This point-to-multipoint model allows multiple Ethernet endpoints to be connected to a central Access Point. Up to 15 endpoints can be linked to a central access point. The NW1 and NW2 support up to 95Mbps throughput using MIMO technology. The units can be powered by an IEEE 802.3af PoE compliant device or through the supplied power injection module. The NW1 is FCC certified for use in North America and the NW2 is ETSI, DFS and TPC certified for use in the European Union.

FEATURES

- > Up to 95Mbps Throughput
- > 802.11a/n Compliant
- > Distances up to 2 mi (FCC) or 2km (ETSI)
- Powered by the included power injection module or by an IEEE802.3af PoE compliant device
- > 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
- > RF Spectrum Survey Tools
- › 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

- Point to Multi-Point topologies whereby several Clients connect to one Access Point
- 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

Operational Frequency

Wireless Radio

RF Output

Bandwidths

EIRP

Power Operating Voltage

Mechanical

Power Consumption PD Power

Indicating LEDs

Size (L \times W \times H)

Shipping Weight:

Operating Temp

Relative Humidity

Internal Components

Storage Temp

Enclosure

Environmental

MTBF

Warranty

42 to 57 VDC 5.5W Max IEEE802.3af PD compliant

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

-40° C to +85° C 5% to 95%, non-condensing¹

Lifetime 3 Year



C Low Power Consumption

Standard Internal Antenna Antenna Internal 19dBi Dual Polarized Directional Gain 19dRi 17° Horizontal/Vertical Azimuth Elevation 17° Horizontal/Vertical Connectors 10/100 Ethernet 2 × RJ-45, Sealed Cable Gland **Software Features** Static IP / DHCP Client / DHCP Server Addressing SNMP ٧3 **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

region.

20 and 40MHz

NW1 (FCC): Up to +36dBm for point to multipoint

deployments, +45dBm for point to point

NW2 (ETSI): +30dBm

+26dBm Rated Transmitter

deployments with MAC-lock feature enabled

5180MHz - 5825MHz, Region-dependent.

Not all frequencies are supported in all regions.

Contact ComNet for frequencies supported in your

User Configurable Long Range Parameters

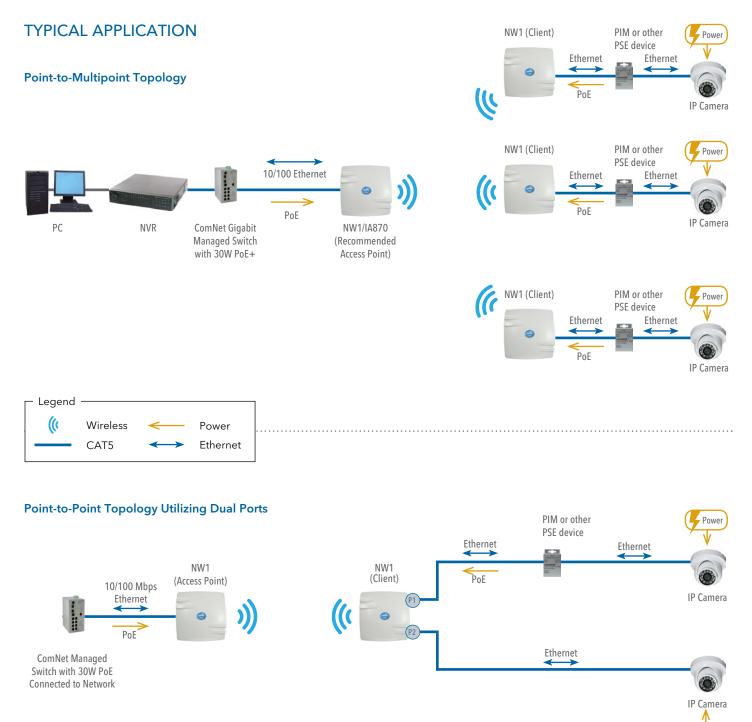
ORDERING INFORMATION

Part Number	Description
NW1	Industrially Hardened Point-to-Multipoint Wireless Ethernet Unit, Supports distances up to 2 mi/3.2 km, FCC certified for North America
NW2	Industrially Hardened Point-to-Multipoint Wireless Ethernet Unit, Supports distances up to 2 km/1.25 mi, ETSI certified for European Union
Included Accessories	Power Kit with Power Supply and Passive Power Injector Pole Mounting Hardware Kit
Options	NWBKT - Articulating Wall or Pole Mounting Kit. Supports up to 3in/76mm diameter poles. (Sold Separately) [1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)

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

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Power





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