



The NetWave® industrially hardened wireless Ethernet transmission link from ComNet™ 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. An easy to read LED array displays unit operational status along with received signal strength ensuring optimal installation and operation. The units are passive powered by PoE (Power over Ethernet) through a 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

- › 802.11a/n Compliant
- › RF Spectrum Survey Tools
- › Antenna Alignment Tools
- › Passive PoE Support
- › Secure transmission: WPA2 - AES or TKIP encryption
- › ComNet Antenna alignment feature eases installation and setup
- › Distance adjustments allow for short- or long- range transmission
- › ETSI Standards (EU Region only):
  - DFS Dynamic Frequency Selection
  - TPC Transmit Power Control
- › Meets class IP67 dust and water immersion protection standards
- › Environmentally Hardened -40° to +75°C
- › Optional Antenna Configurations Available
- › Lifetime Warranty

SPECIFICATIONS

Wireless Radio

EIRP	NW1 (FCC): +35dBm NW2 (ETSI): +30dBm
RF Output	+26dBm Rated Transmitter
Operational Frequency	NW1: FCC UNII3 5745-5825MHz NW2: 5500-5700MHz supporting 802.11h ETSI DFS and TPC
Bandwidths	10, 20, and 40MHz

Standard Internal Antenna

Antenna	Internal 19dBi Dual Polarized Directional
Gain	19dBi
Azimuth	17° Horizontal/Vertical
Elevation	17° Horizontal/Vertical

IA870 Optional Internal Antenna

Antenna	Internal 8dBi Dual Polarized Directional
Gain	8dBi
Azimuth	70° Horizontal/Vertical
Elevation	30° Horizontal/Vertical

Connectors

10/100 Ethernet	RJ-45, Sealed Cable Gland
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AGENCY COMPLIANCE



LEDs

Power On, Ethernet Link, Signal Strength, LAN port, Reset

Software Features

Addressing	Static IP / DHCP Client / DHCP Server
SNMP	V2c
Spanning Tree Protocol support	
Telnet Server	
Syslog	
802.1x Port-Based Network Access Control	
NTP Client	
User-Configurable Watchdog and Auto-Reboot Mechanism	
Multi-Level Configuration and Monitoring Login Accounts	
User Configurable Long Range Parameters	

Electrical & Mechanical

Power	+24VDC @ 350mA (Passive PoE)
Size (L x W x H)	10.0 x 10.0 x 3.4 in. (25.7 x 25.7 x 8.6 cm)
Shipping Weight:	<2lbs/0.9kg

Environmental

MTBF	>100,000 hours
Operating Temp	-40° C to +75° C
Storage Temp	-40° C to +85° C
Relative Humidity	5% to 95%

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

ORDERING INFORMATION

Part Number	Description
NW1	Industrially Hardened Point-to-Multipoint Wireless Ethernet Link, Supports distances up to 2 mi/3.2 km, FCC certified for North America
NW2	Industrially Hardened Point-to-Multipoint Wireless Ethernet Link, 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 Mounting Hardware Kit
Options	NWBKT - Articulating Wall or Pole Mounting Kit. Supports up to 3in/76mm diameter poles. (Sold Separately) Add /IA870 for 8dBi/70° beamwidth internal antenna option (Recommended for multipoint Access Points. Extra charge, consult factory.) Add /EXA for no internal antenna, with N-Type connections for External Antenna options Add /IC for Conformally Coated Circuit Boards (Extra charge, consult factory)

TYPICAL APPLICATION

