



The NetWave™ NW1 and NW2 from ComNet™ is an industrially hardened wireless Ethernet transmission link that 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 powered by PoE (Power over Ethernet) through a supplied PoE injection module. The NW1 is FCC certified and the NW2 is ETSI, DFS and TPC certified.

## 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:
  - DFS Dynamic Frequency Selection
  - TPC Transmit Power Control
- › Meets class IP67 dust and water immersion protection standards
- › Environmentally Hardened -40° to +75°C
- › 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

Wireless Antenna

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

Connectors

Ethernet	RJ-45, Sealed Cable Gland
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LEDs

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



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

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
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%

ORDERING INFORMATION

Part Number	Description
NW1	Industrially Hardened Point-to-Multipoint Wireless Ethernet Link, FCC certified
NW2	Industrially Hardened Point-to-Multipoint Wireless Ethernet Link, ETSI certified
Included Accessories	Power Kit with Power Supply and Passive Power Injector Mounting Hardware Kit
Options	Add 'C' for Conformally Coated Circuit Boards (Extra charge, consult factory)

TYPICAL APPLICATION

