



The NetWave® NW3 and NW4 from ComNet™ is a commercial grade 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 NW3 and NW4 support up to 95Mbps throughput due to 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 PoE (Power over Ethernet) powered or through a supplied power injection module. The NW3 is FCC certified for use in North America and the NW4 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
- › Commercial grade for use in benign conditioned environments
- › Ambient operating temperature range: -10° to +65°C
- › Lifetime Warranty

## SPECIFICATIONS

### Wireless Radio

EIRP	NW3 (FCC): +35dBm NW4 (ETSI): +30dBm
RF Output	+26dBm Rated Transmitter
Operational Frequency	NW3: FCC UNII3 5745-5825MHz NW4: 5500-5700MHz supporting 802.11h ETSI DFS and TPC
Bandwidths	10, 20, and 40MHz

### Standard Internal Antenna

Antenna	Internal 17dBi Dual Polarized Directional
Gain	17dBi
Azimuth	30° 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, SMA Socket, 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)	4.75 x 2.50 x 11.00 in. (12.1 x 6.4 x 28.0 cm)
Shipping Weight:	<1lb/0.5kg

### Environmental

MTBF	>100,000 hours
Operating Temp	-10° C to +65° C
Storage Temp	-10° 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
NW3	Commercial Grade Point-to-Multipoint Wireless Ethernet Link, Supports distances up to 2 mi/3.2 km, FCC certified for North America
NW4	Commercial Grade 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	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 /C for Conformally Coated Circuit Boards (Extra charge, consult factory)

## TYPICAL APPLICATION

