

# Industrially Hardened High Performance Wireless for High Density Environments

## NW(1,2)[IC]





The NetWave<sup>®</sup> NW(1,2)[IC] Industrial Grade high performance wireless radio is ideal for high capacity and scalable deployments where channel overlapping and interference typically cause our discounted competitors radios to become unstable. The wide range of channel spectrum widths available on the NW(1,2)[IC] series of radios gives you the option of narrowing channel bandwidths as your network grows which will increase the number of non-overlapping channels and improve stability.

The NW(1,2)[IC] comes standard with an integrated antenna and an IP67 rated impact resistant polycarbonate enclosure that is designed to survive the most extreme conditions.

The NW1 is FCC certified for use in the United States. The NW2 is ETSI, DFS and TPC certified for use in the European Union. The NW1IC is certified for use in Canada.

## **FEATURES**

- Narrow Channel Spectrum Widths for large and noisy deployments
- > 5, 10, 20 and 40 Mhz Channel Bandwidth Support
- > Up to 240 Mbps Throughput
- > 802.11a/n Compliant
- > Distances up to 2 mi (FCC, IC) or 2km (ETSI)
- > IEEE802.3at PoE Compliant PD on port 1
- > IEEE802.3af power source (PSE) available on port 2
- > Environmentally Hardened -40° to +75°C
- Meets class IP67 dust and water immersion protection standards
- > 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
- Scalable Narrow Channel 5 and 10 MHz Bandwidths will allow you to expand your WLAN without losing reliability by increasing the total number of non-overlapping channels
- > Firmware Upgrades Included Free for the life of the product
- Installation and Configuration Trainings Available
- > Radio Internal Components covered by Lifetime Warranty.
- > Enclosure covered by Three Year Warranty.

## APPLICATIONS

- › High-Bandwidth Video Surveillance
- Multipurpose Networks
- ITS Applications

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# SPECIFICATIONS

#### **Software Features**

 Addressing
 Static IP / DHCP Client / DHCP Server

 SNMP
 V3

 Dynamic DNS
 802.1q VLAN support

 Embedded Firewall
 QoS support

 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

### **Wireless Radio**

# EIRPNW1 (FCC, IC): Up to +36 dBm for point to<br/>multipoint deployments, +49 dBm for point to<br/>point deployments with MAC-lock feature enabled<br/>NW2 (ETSI): +30 dBmRF Output+30 dBm Rated TransmitterOperational Frequency5180 MHz - 5825 MHz, Region-dependent.<br/>Not all frequencies are supported in all regions.<br/>Contact ComNet for frequencies supported in your<br/>region.Bandwidths5, 10, 20 and 40 MHz

### **Standard Internal Antenna**

Antenna	Internal 20 dBi Dual Polarized Directional
Gain	20 dBi
Azimuth	17° Horizontal/Vertical
Elevation	17° Horizontal/Vertical

## Connectors

Gigabit Ethernet<br/>10/100 EthernetPort 1 RJ-45, Sealed Cable GlandPowerPort 2 RJ-45, Sealed Cable GlandPower24 to 56 VDC<br/>Power ConsumptionPD PowerIEEE802.3af/at pass-through PD compliant<br/>PSE PowerPEROWERIEEE802.3af PSE compliant uplink

### Mechanical

Indicating LEDs Size (L × W × H) Shipping Weight:

### Environmental

MTBF Operating Temp Storage Temp Relative Humidity >100,000 hours -40° C to +75° C -40° C to +85° C 5% to 95%, non-condensing<sup>1</sup>

< 4.4 lb / 2 kg

Power On Ethernet Link Signal Strength

10.6 × 10.6 × 2.9 in (27 × 27 × 7.5 cm)

### Warranty

Internal Components Enclosure Lifetime 3 Year

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

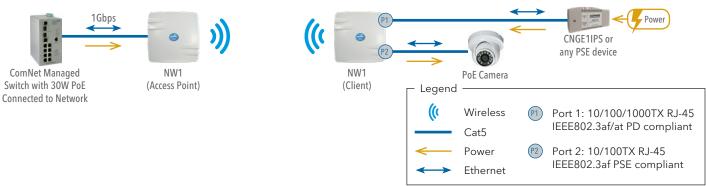




## ORDERING INFORMATION

Part Number	Description	
NW1	Industrially Hardened Narrow Bandwidth Wireless Radio, Supports distances up to 2 mi/3.2 km, FCC certified for North America	
NW2	Industrially Hardened Narrow Bandwidth Wireless Radio, Supports distances up to 2 km/1.25 mi, ETSI certified for European Union	
NW1IC	Industrially Hardened Narrow Bandwidth Wireless Radio, Supports distances up to 2 mi/3.2 km, IC certified for Canada	
Included Accessories	Pole Mounting Hardware Kit	
Options	NWBKT - Articulating Wall or Pole Mounting Kit. Supports up to 3in/76mm diameter poles. (Sold Separately)	
	PIM1 - Hardened 100 Mbps Power Injection Module supporting 24-48V DC and 24VAC Input (Includes 24V 12W power supply, North America only)	
	CWPOEIPS-15 - Commercial 15.4W Midspan 100Mb Power Injection Module supporting 100-240V AC input and 48V DC output	
	CNGE1IPS - Hardened 35 W Midspan 1 Gbps Power Injection Module for Passthrough PoE Applications supporting 90-264V AC Input and 56V DC Output	
	[1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions (Extra charge, consult factory)	

## **TYPICAL APPLICATION**



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