



The NetWave® NWK11/M mini industrially hardened wireless kit is a low cost option for short range deployments that requires full featured radio performance. The wide range of channel spectrum widths available on the NWK11/M package 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 NWK11/M series radio kit comes standard with integrated antennas and IP67 rated impact resistant ABS enclosures designed to survive the most extreme conditions.

The NWK11/M is FCC certified for use in North America, NWK11IC/M is IC Certified for use in Canada, and the NWK11E/M is ETSI, DFS and TPC certified for use in the European Union.

FEATURES

- › Complete wireless kit consisting of two radios, power supplies, and mounting hardware.
- › 5, 10, 20 and 40 Mhz Channel Bandwidth Support
- › 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
- › Up to 100 Mbps Throughput
- › 802.11a/n Compliant
- › Distances up to .5 mi(FCC) or .8km (ETSI and IC)
- › Passive PoE on Port 1
- › 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
- › RF Spectrum Survey Tools
- › LED array displays unit operational status along with received signal strength
- › 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

- › Short-Range Video Surveillance
- › Multipurpose Networks
- › ITS Applications

SPECIFICATIONS

Software Features

Addressing	Static IP / DHCP Client / DHCP Server
SNMP	V3
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	
User Configurable Long Range Parameters	

Wireless Radio

EIRP	NWK11/M (FCC): Up to +36 dBm for point to multipoint deployments, +46 dBm for point to point deployments with MAC-lock feature enabled NWK11C/M (IC): +30dBm NWK11E/M (ETSI): +30 dBm
RF Output	+30 dBm Rated Transmitter
Operational Frequency	5180 MHz – 5825 MHz, Region-dependent. Not all frequencies are supported in all regions. Contact ComNet for frequencies supported in your region.
Bandwidths	5, 10, 20 and 40 MHz

Standard Internal Antenna

Antenna	Internal 16 dBi Dual Polarized Directional
Gain	16 dBi
Azimuth	30° Horizontal/Vertical
Elevation	30° Horizontal/Vertical

Connectors

10/100 Ethernet	RJ-45, Sealed Cable Gland
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Power

Operating Voltage	24 to 56 VDC
Power Consumption	5 W Max
PD Power	Passive PoE

Mechanical

Indicating LEDs	Power On Ethernet Link Signal Strength
Size (L x W x H)	7.4 x 7.4 x 2.2 in (18.5 x 18.5 x 5.6 cm)
Shipping Weight:	<7.8 lb / 3.5 kg

Environmental

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

Warranty

Internal Components	Lifetime
Enclosure	3 Year

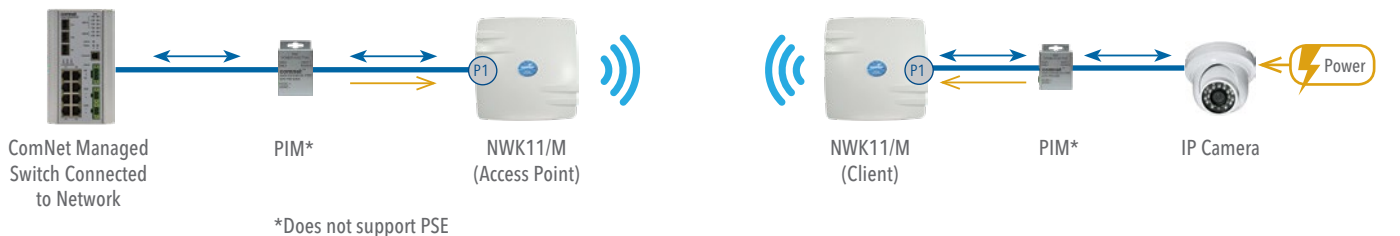


ORDERING INFORMATION

Part Number	Description
NWK11/M	Mini Industrially Hardened Narrow Bandwidth Wireless Kit, Supports distances up to 0.5 mi/800 m, FCC certified for North America
NWK11C/M	Mini Industrially Hardened Narrow Bandwidth Wireless Kit, Supports distances up to 0.5 mi/800 m, IC certified for Canada
NWK11E/M	Mini Industrially Hardened Narrow Bandwidth Wireless Kit, Supports distances up to 0.5 mi/800 m, ETSI certified for European Union
Included Accessories	2 Pole Mounting Hardware Kits 2 Non Hardened Passive Power Injector s (1 for each radio) for use in benign 0-50° C environments only.
Options	PIM1 - Hardened Power Injection Module supporting 24-48V DC and 24VAC Input, Includes 24V 12W power supply [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.

TYPICAL APPLICATION



LEGEND	
	WIRELESS
	CATS
	POWER
	ETHERNET
	PORT 1 PD
	50Ω COAX