

Mini Industrially Hardened Point-To-Point Wireless Ethernet Kit for Short Range Deployments

NWK11/M Kit





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.
- > 20, 40, and 80 MHz Channel Bandwidth Support
- > Up to 100 Mbps Throughput
- > 802.11a/n/ac 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

Mini Industrially Hardened Point-To-Point Wireless Ethernet Kit for Short Range Deployments

SPECIFICATIONS

Software Features

Static IP / DHCP Client / DHCP Server Addressing SNMP V3 **Telnet Server** Syslog 802.1q VLAN support Dynamic DNS **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
	NWK11IC/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	20, 40, and 80 MHz

Standard Internal Antenna

Antenna	Internal 16 dBi Dual Polarized Directional
Gain	16 dBi
Azimuth	30° Horizontal/Vertical
Elevation	30° Horizontal/Vertical
Connectors	
10/100/1000 Ethernet	RJ-45, Sealed Cable Gland
Power	
Operating Power	48 to 57 VDC @ 170 mA
Power Consumption	5 W Max
PD Power	Passive PoE
Mechanical	
Indicating LEDs	Power On Ethernet Link Signal Strength
Size (L \times W \times H)	7.4 × 7.4 × 2.2 in (18.5 × 18.5 × 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 Enclosure Lifetime 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
NWK11IC/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	[1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions
(Extra charge,	PIM1 - Hardened 100 Mbps Power Injection Module supporting 24-48 VDC and 24 VAC Input
consult factory)	NWPM24PPI - Hardened Passive Power Inserter supporting 90-264VAC input and 48VDC @ .5A output10 - 60C Operating Temperature

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

TYPICAL APPLICATION



3 CORPORATE DRIVE | DANBURY, CONNECTICUT 06810 | USA | T: 203.796.5300 | F: 203.796.5303 | TECH SUPPORT: 1.888.678.9427 | INFO@COMNET.NET

SUITE 7, CASTLEGATE BUSINESS PARK | CALDICOT | SOUTH WALES, UK NP26 5AD | T: +44(0)2036 300 695 | F: +44(0)113 253 7462 | INFO-EUROPE@COMNET.NET

Communication Networks

an ACRE brand

© 2021 Communication Networks. All Rights Reserved. "ComNet" and the "ComNet Logo" are registered trademarks of Communication Networks.

Construction