

Mini Industrially Hardened Point-to-Point Wireless Ethernet Kit

NWK1/M and NWK2/M





The NetWave® industrially hardened wireless Ethernet transmission kit includes a Client and an Access Point. The NWK1/M and NWK2/M support up to 95Mbps throughput using MIMO technology. The units can be powered by an IEEE 802.3af PoE compliant device or through the supplied power injection module. The NWK1/M is FCC certified for use in North America and the NWK2/M is ETSI, DFS and TPC certified for use in the European Union. This mini unit come in an ultrasmall form factor that is a new addition to the ComNet NetWave product family.

FEATURES

- › Lifetime Warranty
- › Up to 95Mbps Throughput
- > 802.11a/n Compliant
- > Distances up to 2 mi (FCC) or 2km (ETSI)
- Powered by the included power injection module or by an IEEE802.3af PoE compliant device
- > Environmentally Hardened -40° to +75°C
- Meets class IP67 dust and water immersion protection standards
- > ETSI Standards (EU Region only):
- DFS Dynamic Frequency Selection
- TPC Transmit Power Control
- > Secure transmission: WPA2 AES or TKIP encryption
- ComNet Antenna alignment feature eases installation and setup
- > RF Spectrum Survey Tools
- › Antenna Alignment Tools
- LED array displays unit operational status along with received signal strength

APPLICATIONS

- Simple to deploy and cost-effective alternative to physical connections to Ethernet edge equipment
- Integration of Ethernet where right-of-way issues mandate wireless communications
- ITS traffic signalization networks and Video Detection Systems (VDS)
- ITS roadside and city center CCTV surveillance, and surveillance of high-value or mission-critical assets
- > Wireless communications in manufacturing, petrochemical refineries, wastewater treatment facilities, and other industrial automation and control applications operating in harsh or out-of-plant environments
- > Electrical substation video and perimeter surveillance

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SPECIFICATIONS

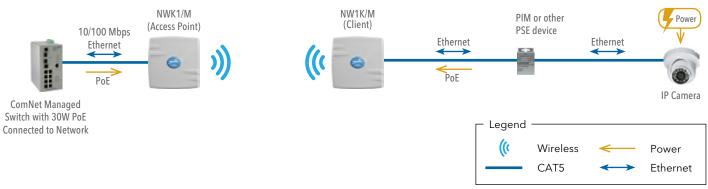
Wireless Radio		Software Features	
EIRP	NWK1/M (FCC): Up to +36dBm for point to	Addressing	Static IP / DHCP Client / DHCP Server
	multipoint deployments, +42dBm for point to	SNMP	V3
	point deployments with MAC-lock feature enabled	Telnet Server	Syslog
	NWK2/M (ETSI): +30dBm	Dynamic DNS	802.1q VLAN support
RF Output	+26dBm Rated Transmitter	Embedded Firewall	QoS support
Operational Frequency	5180MHz – 5825MHz, Region-dependent.	Ability to Assign Static Routes	NTP Client
	Not all frequencies are supported in all regions.	Spanning Tree Protocol suppo	ort
	Contact ComNet for frequencies supported in your	802.1x Port-Based Network A	ccess Control
	region.	User-Configurable Watchdog	and Auto-Reboot Mechanism
Bandwidths	20 and 40MHz	Multi-Level Configuration and Monitoring Login Accounts	
Standard Internal Antenna		User Configurable Long Range Parameters	
Antenna	Internal 16dBi Dual Polarized Directional	Power	
Gain	16dBi	Operating Voltage	42 to 57 VDC
Azimuth	30° Horizontal/Vertical	Power Consumption	5.5 W Max
Elevation	30° Horizontal/Vertical	PD Power	IEEE802.3af PD compliant
Connectors		Mechanical	
10/100 Ethernet	RJ-45, Sealed Cable Gland	Indicating LEDs	Power On Ethernet Link Signal Strength
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	<7.7 lb / 3.5 kg
		Environmental	
		MTBF	>100,000 hours
AGENCY COMPLIANCE		Operating Temp	-40° C to +75° C
	🛛 🧳 Low Power Consumption	Storage Temp	-40° C to +85° C
PART 15 COMPLIANT		Relative Humidity	5% to 95%, non-condensing ¹

ORDERING INFORMATION

Part Number	Description	
NWK1/M	Industrially Hardened Mini Point-to-Point Wireless Ethernet Kit, Supports distances up to 2 mi/3.2 km, FCC certified for North America	
NWK2/M	Industrially Hardened Mini Point-to-Point Wireless Ethernet Kit, 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 for each unit Pole Mounting Hardware Kit	
Options	[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



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