



INCLUDED



-40° TO 75°C



802.3af



IP67



1



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 ultra-small 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

SPECIFICATIONS

Wireless Radio

EIRP	NWK1/M (FCC): Up to +36dBm for point to multipoint deployments, +42dBm for point to point deployments with MAC-lock feature enabled NWK2/M (ETSI): +30dBm
RF Output	+26dBm Rated Transmitter
Operational Frequency	5180MHz – 5825MHz, Region-dependent. Not all frequencies are supported in all regions. Contact ComNet for frequencies supported in your region.
Bandwidths	20 and 40MHz

Standard Internal Antenna

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

Connectors

10/100 Ethernet	RJ-45, Sealed Cable Gland
Indicating LEDs	Power On, Ethernet Link, Signal Strength



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	

Power

Operating Voltage	42 to 57 VDC
Power Consumption	5.5 W Max
PD Power	IEEE802.3af PD compliant

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	<7.7 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

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

