

Mini Industrially Hardened High Performance Outdoor Wireless Bridge

NWK(1,2)[IC]/M





The NetWave® NWK(1,2)[IC]/M industrially hardened wireless Ethernet transmission kit includes a Client and an Access Point. The NWK1[IC]/M and NWK2/M support up to 500 Mbps throughput using MIMO technology. The units can be powered by an IEEE 802.3af PoE compliant device or through an optional power injection module. The NWK1/M is FCC certified for use in North America, the NWK1IC/M is IC certified for use in Canada, 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

- > New and improved impact resistant polycarbonate enclosure
- > 20, 40, and 80 MHz Channel Bandwidth Support
- > Up to 500 Mbps Throughput (subject to environmental conditions)
- > 802.11a/n/ac Compliant
- > Distances up to 2 mi (FCC, IC) or 2km (ETSI)
- > IEEE802.3at PoE Compliant PD on port 1
- > 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
- › Antenna Alignment Tools
- > LED array displays unit operational status along with received signal strength
- > Radio Internal Components covered by Lifetime Warranty.
- > Enclosure covered by Three Year Warranty.

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[IC]/M (FCC, IC): Up to +36dBm for point to multipoint deployments, +42dBm for point to point deployments with MAC-lock feature enabled	Addressing SNMP Dynamic DNS	Static IP / DHCP Client / DHCP Server V3 802.1q VLAN support
RF Output Operational Frequency Bandwidths	NWK2/M (ETSI): +30dBm +26dBm Rated Transmitter 5180MHz - 5825MHz, Region-dependent. Not all frequencies are supported in all regions. Contact ComNet for frequencies supported in your region. 20, 40, and 80 MHz	-	upport rk Access Control dog and Auto-Reboot Mechanism 1 and Monitoring Login Accounts
Standard Internal Ante		Power	
Antenna Gain	Internal 16dBi Dual Polarized Directional 16dBi	Power Consumption PD Power	5 W Max IEEE802.3af PD compliant
Azimuth Elevation	30° Horizontal/Vertical 30° Horizontal/Vertical	Mechanical Indicating LEDs	Power On Ethernet Link Signal Strength
Connectors 10/100/1000 Ethernet Indicating LEDs	RJ-45, Sealed Cable Gland Power On, Ethernet Link, Signal Strength	Size (L × W × H) Shipping Weight	7.4 × 7.4 × 2.2 in (18.5 × 18.5 × 5.6 cm) <7.7 lb / 3.5 kg
		Environmental MTBF Operating Temp Storage Temp Relative Humidity Wind load	>100,000 hours -40° C to +75° C -40° C to +85° C 5% to 95%, non-condensing ¹ 62N(Front) at 200 km/h
AGENCY COMPLIANCE PART 15 COMPLIANT	s 🕅 🎸 Low Power Consumption	Warranty Internal Components Enclosure	Lifetime 3 Year
ORDERING INFO	RMATION		

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		
NWK1IC/M	Industrially Hardened Mini Point-to-Point Wireless Ethernet Kit, Supports distances up to 2 km/1.25 mi, IC certified for Canada		
Included Accessories	Pole Mounting Hardware Kit		
Options (Extra charge, consult factory)	[1] Add suffix '/C' for Conformally Coated Circuit Boards to extend to condensation conditions CNGE1IPS - Hardened 35 W Midspan 1 Gbps Power Injection Module for Passthrough PoE Applications supporting 90-264 VAC Input and 56 VDC Output		

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

TYPICAL APPLICATION



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Construction