

Industrially Hardened Point-to-Point Wireless Ethernet Kit

NWK1/NWK2

















The NetWave® pre-configured point-to-point industrially hardened wireless Ethernet Transmission kit that allows Ethernet data to be transmitted between a Client remote location and the Access Point or head end. The NWK1 and NWK2 support up to 95Mbps throughput due to MIMO technology. An easy to read LED array displays unit operational status along with received signal strength ensuring optimal installation and operation. The units can be powered by an IEEE 802.3af/ at PoE compliant device or through the supplied power injection module. The NWK1 is FCC certified for use in North America and the NWK2 is ETSI, DFS and TPC certified for use in the European Union. Each kit contains two passive power injectors, power supplies and mounting hardware.

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
- > Pre-configured Access Point and Client units for quick setup
- > 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 (FCC): +4dBm to +26dBm

> NWK2 (ETSI): +30dBm +26dBm Rated Transmitter

RF Output Operational Frequency NWK1: FCC UNII3 5745-5825MHz

NWK2: 5500-5700MHz supporting 802.11h ETSI

DFS and TPC

Bandwidths 10, 20, and 40MHz

Wireless Antenna

Antenna Internal 19dBi Dual Polarized Directional

Gain 19dBi

Azimuth 17° Horizontal/Vertical Elevation 17° Horizontal/Vertical

Connectors

10/100 Ethernet RJ-45, Sealed Cable Gland

LEDs Power On, Ethernet Link, Signal Strength,

LAN port, Reset





Software Features

Static IP / DHCP Client / DHCP Server Addressing

SNMP V2c Spanning Tree Protocol support

Telnet Server Syslog

802.1x Port-Based Network Access Control

NTP Client

User-Configurable Watchdog and Auto-Reboot Mechanism Multi-Level Configuration and Monitoring Login Accounts

User Configurable Long Range Parameters

Power

Operating Voltage 24VDC @ 140mA 48VDC @ 70mA

Power Consumption 3.5 W

PD Power IEEE802.3af PD compliant

Mechanical

Size $(L \times W \times H)$ $10.0 \times 10.0 \times 3.4$ in $(25.7 \times 25.7 \times 8.6$ cm)

Shipping Weight: < 4lbs/1.8kg

Environmental

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

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

ORDERING INFORMATION

Part Number Description

Industrially Hardened Point-to-Point Wireless Ethernet Kit, distances up to 2 mi/3.2 km. NWK1

Consult ComNet tech support for system designs beyond 2 mi/3.2 km. FCC certified for North America

NWK2 Industrially Hardened Point-to-Point Wireless Ethernet Kit, distances up to 2 km/1.25 mi, ETSI certified for European Union

2 × Power Kit with Power Supply and Passive Power Injector **Included Accessories**

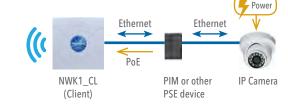
2 × Mounting Hardware Kit

Options NWBKT - Articulating Wall Mount Bracket (Sold Separately)

TYPICAL APPLICATION









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