comnet
Communication Networks

NWK3/NWK4

netwave®

POWER SUPPLY
INCLUDED

ETHERNET
1

The NetWave® NWK3 and NWK4 from ComNet™ is a pre-configured point-to-point commercial grade wireless Ethernet Transmission kit. This point-to-point model allows a single Ethernet data stream to be transmitted between a Client remote location and the Access Point or head end. A simple, easy to read LED array displays unit operational status along with received signal strength, ensuring optimal installation and operation. The NWK3 and NWK4 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 are passive powered by PoE (Power over Ethernet) through a supplied power injection module. The NW3 is FCC certified for use in North America and the NW4 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

› Pre-configured Access Point and Client units for quick setup

› 802.11a/n Compliant

› RF Spectrum Survey Tools

› Antenna Alignment Tools

› Passive PoE Support

› Secure transmission: WPA2 – AES or TKIP encryption

› ComNet Antenna alignment feature eases installation and setup

› Distance adjustments allow for short- or long- range transmission

› ETSI Standards (EU Region only):
  – DFS Dynamic Frequency Selection
  – TPC Transmit Power Control

› Commercial grade for use in benign conditioned environments

› Ambient operating temperature range: -10° to +65°C

› Lifetime Warranty

SPECIFICATIONS

Wireless Radio

EIRP	NWK3 (FCC): +43dBm
	NWK4 (ETSI): +30dBm
RF Output	+26dBm Rated Transmitter
Operational Frequency	NWK3: FCC UNII3 5745-5825MHz
	NWK4: 5500-5700MHz supporting 802.11h ETSI DFS and TPC
Bandwidths	10, 20, and 40MHz

Wireless Antenna

Antenna	Internal 17dBi Dual Polarized Directional
Gain	17dBi
Azimuth	30° Horizontal/Vertical
Elevation	17° Horizontal/Vertical

Connectors

Ethernet	RJ-45, Sealed Cable Gland

LEDs

	Power On, Ethernet Link, Signal Strength, LAN port, SMA Socket, Reset

AGENCY COMPLIANCE

FC PART 15 COMPLIANT   CE   RoHS COMPLIANT

🍃 Low Power Consumption

Software Features

Addressing	Static IP / DHCP Client / DHCP Server
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	

Electrical & Mechanical

Power	+24VDC @ 350mA (Passive PoE)
Size (L × W × H)	4.75 × 2.50 × 11.00 in (12.1 × 6.4 × 28.0 cm)
Shipping Weight:	<2lbs/0.9kg

Environmental

MTBF	>100,000 hours
Operating Temp	-10° C to +65° C
Storage Temp	-10° 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
NWK3	Commercial Grade Point-to-Point Wireless Ethernet Kit, Can support distances beyond 2 miles/3.2Km. Consult ComNet tech support for system designs beyond 2 miles/3.2Km, FCC certified for North America
NWK4	Commercial Grade Point-to-Point Wireless Ethernet Kit, Supports distances up to 2Km/1.25 miles, ETSI certified for European Union
Included Accessories	2 × Power Kit with Power Supply and Passive Power Injector 2 × Mounting Hardware Kit
Options	Add '/C' for Conformally Coated Circuit Boards (Extra charge, consult factory)

TYPICAL APPLICATION

PC — DVR — CNGE2FE8MS Managed Switch — Cat5 Cable — Passive Power Injector — NWK3 (Access Point))))   (((NWK3 (Client) — Passive Power Injector — IP Camera