

ETHERNET

WIRELESS VIDEO

COMMPAK IP



COMMPAK IP – WIRELESS ETHERNET/SERIAL TRANSCEIVER



COMMPAK IP – WIRELESS SERIAL AND VIDEO ETHERNET CONNECTIVITY

The COMMPAK IP gives traffic-control and maintenance personnel an easy, affordable wireless system to extend IP based and serial networks beyond existing infrastructure.

Acting as a wireless bridge, the COMMPAK IP provides Ethernet connectivity for multiple IP based traffic management devices. This is the perfect solution for the following applications:

- Extending an Ethernet system to additional intersections.
- Bringing back multiple data streams from traffic controllers, video cameras, and traffic detectors over a long range and reliable wireless data link.
- Serial controller interconnect and streaming video over the same link.

Uses 900 MHz FHSS (Frequency Hopping Spread Spectrum) technology with a constant wireless link rate of 1.1 Mbps, the COMMPAK IP provides long-range communications with data rates that do not degrade over distances up to 20 miles.

In addition, the ENCOM COMMPAK IP can be used as a remote dual gateway with serial ports and high speed Ethernet connectivity operating simultaneously! This allows a simple migration of serial based devices to IP networks. This industrial grade Ethernet access point also gives on-street personnel in mobile units roaming access to the IP network, extending and enhancing their maintenance capabilities.

With ENCOM™, Wireless is Simple!

FEATURES

- Standard 1.1 Mbps wireless link rate
- Long-range 900 MHz FHSS technology for robust operation with 1 Watt output power
- Industrial Quality IP/Ethernet
- Secure communications with 128-bit data encryption
- Bandwidth to support multiple communications in one traffic cabinet simultaneously
- Support for serial based systems
- Up to 230.4 Kbps sustained data throughput on serial ports



ENCOM™
Wireless Data Solutions

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SPECIFICATIONS



RADIO SPECIFICATIONS

| | |
|------------------|--|
| Frequency | 902-928 MHz |
| Spread Spectrum | Frequency Hopping (FHSS) |
| Link Rate | 1.1 Mbps, 345 Kbps |
| Hopping Patterns | Automatically Generated |
| Hopping Channels | 50 /Pattern |
| Error Detection | 32 bit CRC, ARQ |
| Data Encryption | 128 bit WEP, 128 bit WPA, 256 Bit AES |
| Range | +20 miles (clear LOS) |
| Output power | 100 mW to 1 W (20-30 dBm) |
| System Gain | 156 dB (Yagi Antenna) |
| Serial Port | RS232: Rx/D Tx/D RTS, CTS, DCD, DSR, DTR RS422: Tx+, Tx- Rx+, Rx- RS485: 4 wire/ 2Wire Baud Rate: 300 bps to 230.4 Kbps |
| Dimensions | 5.00"W x 2.00"H x 6.00"D |

Operation System

| | |
|-------------------|---|
| Requirement: | Microsoft Windows 98 SE, ME, 2000, XP |
| Security | - Administrator and user group protected - Password authentication |
| Ethernet | 10/100 Base T, IEEE 802.3 |
| Network Protocols | TCP, UDP, ARP, ICMP, DHCP, HTTP, SNMP, FTP Upgrade. |
| Management | Local, Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade |
| Diagnostics | VSWR, Battery Voltage, Temperature, RSSI, Remote Diagnostics |
| Operating Modes | Point-to-point, Point-to-Multipoint, Store & Forward Repeater, Peer to Peer |
| Rejection | Excellent Strong Signal Interference & Rejection Characteristics |
| Power Supply | 9 VDC to 30 VDC |
| Current | (12VDC) Transmit 600 mA Receive 95 mA |
| Connectors | Antenna: Reverse Polarity TNC Mode Serial: DB9F Ethernet: Data RJ-45 Power: Locking Terminal Connector |
| Environment | -40°C to +75°C, 5-95% non-condensing |
| Weight | Approx. 420 grams (0.92 lbs) |
| Enclosure | Extruded Aluminium |



**ENCOM reserves the right to make changes to specifications of products described in this data sheet at any time without notice.

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