The fastest way to wireless.

ConnexNet provides a complete hardware and software solution for adding wireless network connectivity to serial-based applications. The transceiver serves as a conduit between the user and multiple destination devices via a local network or the Internet. Controlling distant OEM networks is as easy as accessing the 'Net.

Unlike other industrial wireless Ethernet offerings, ConnexNet does not require a COM port director. All software controls communicate directly to the device, greatly improving system latency. And ConnexNet will support a wireless Ethernet-to-serial bridge to allow separate networks to talk with one another simultaneously.

Each unit is small and easily portable for use in mobile or temporary settings as well as for fixed installations. FHSS modulation ensures reliable transmissions, while use of the 900MHz ISM band makes ConnexNet ready to use with no further certification.

ConnexNet[™] Highlights

100

- Wireless LAN service supporting Ethernet interface.
- Comprehensive networking protocols.
- Equipped with a CPU, real-time OS, TCP/IP stack.
- · Provides control from virtually anywhere via the 'Net.

Applications



Industrial Control Remotely program your plant, factory, SCADA equipment. ConnexNet enables machine monitoring across countless miles without invasive wiring.

Electronic Signs



Locate your equipment in the highest traffic areas; tie devices together for complete network management. ConnexNet provides for both ease and opportunity.



Point of Sale Process transactions remotely and securely via wireless links, ConnexNet lets you access Ethernet bridges without the high cost of cable.

Building & Utility Monitor and manage building control systems (such as power, lighting, security, HVAC, irrigation, etc.) from anywhere in the world on your own PC.

Specifications

PARAMETER

Architecture
Network interface
Standard
Physical layer
Mode
Interface Connector
Frequency band
Modulation
Serial interface data rate
Output power
Input power
Power draw (@ 12Vdc)
Power supply
Electrical requirements
Channels
Security
Sensitivity
Range (line-of-sight)
Temperature
Humidity (non-condensing)
Dimensions
Weight
Antenna; connector
Configuration software

CN4790-1000

	Peer-to-peer	Server-
	IEEE 802.3	IEEE 8
	10/100BaseT	10/100
	Half-duplex and full-duplex	Half-du
	RJ-45	RJ-45
	902-928 MHz	902-92
	FHSS FSK	FHSS I
е	Up to 115.2 Kbps	Up to 1
	1000mW variable	1000m
	7Vdc to 18Vdc	7Vdc to
	400mA TX, 40mA RX	400mA
	AC transformer via 6-foot cable (183 cm)	AC tran
	Line voltage 100-120V (240V outside U.S.)	Line vo
	Frequency 50-60 Hz	Freque
	Up to 32	Up to 3
	1-byte system ID, DES	1-byte
	-99 dB @ full RF data rate	-99 dB
	Up to 20 miles (32 km)	Up to 2
	-40° to +80°C	-40° to
ng)	10% to 90%	10% to
	4.75 x 2.75 x 1.17 in. (121 x 70 x 30 mm)	4.75 x
	< 6 oz (< 170 g)	< 6 oz
	Dipole; RPSMA jack (female)*	Dipole;
	Optional, for Windows OS	Optiona

Higher-gain antenna options are available: ask an AeroComm sales associate for more information

CN4490-1000

Server-client
IEEE 802.3
10/100BaseT Half-duplex and full-duplex
RJ-45
902-928 MHz
FHSS FSK
Up to 115.2 Kbps
1000mW variable
7Vdc to 18Vdc
400mA TX, 40mA RX
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< 6 oz (< 170 g)
Dipole; RPSMA jack (female)*
Optional, for Windows OS

AEROCOMM

Wireless Protocol

RF PROTOCOL MODES

- a) Communication Unicast (one-to-one addressing) Broadcast (one-to-many addressing)
- b) Acknowledgement mode (ACK) API with hardware and/or software ACK indication
- c) One-beacon mode
- d) Dynamic radio data table Retains data from up to 12 transceivers

INTERFACE PROTOCOL

- a) On-the-fly transceiver configuration Destination address RF transmit power Co-located servers RF Channel Broadcast/addressed
- b) Raw data or transmit/receive API
- c) 9-bit serial interface mode
- d) Long range mode Enables sensitivity control
- e) Generic A/D, D/A generic I/Os
- f) Variable baud rate
- g) RF packet size, timeout control
- h) Onboard temperature sensor
- i) Handshaking CTS/RTS Full modem-mode available
- j) In-range indicator
- k) Error detection
 Onboard CRC
 Duplicate packet filtering
- I) Data encryption standard (DES)

Ethernet Protocol

- a) Network Communication ARP, UDP, TCP, ICMP, TelNet, TFTP, AutoIP, DHCP, HTTP, SNMP
- b) Connections to serial port TCP, UDP, TelNet
- c) Firmware update TFTP
- d) Addressing, routing, data block handling over the network

Placing Orders

Select features from the list below to identify the appropriate part number. More product lines are available for industrial & commercial applications. Contact AeroComm Sales for details: toll-free 1-800-492-2320, email sales@aerocomm.com.

PART NUMBERS

CN4490-1000-232-SP

Ethernet-enabled packaged transceiver for *server/client* networking, 1000mW output power, -40° to +80° C, 900MHz FHSS. Starter Pack (SP) includes one (1) ConnexNet and one (1) ConnexLink RS232*.

CN4790-1000-232-SP

Ethernet-enabled packaged transceiver for *peer-to-peer* networking, 1000mW output power, -40° to +80° C, 900MHz FHSS. Starter Pack (SP) includes one (1) ConnexNet and one (1) ConnexLink RS232*.

* RS485 versions available.

