The fastest way to wireless.

ConnexLink stand-alone transceivers can be set up in minutes to virtually cut the cables between USB devices. Their flexibility and price (as low as $99 per unit) allow users to quickly upgrade wired terminals to cordless operation in industrial, commercial, even residential applications.

Each unit is small and easily portable for use in mobile and temporary settings as well as for fixed installations. Optional software enables custom configurations based on user needs.

ConnexLink implements a proprietary communication protocol to provide secure local data transmissions. Because it uses FHSS technology, the data remains reliable over distances of up to four miles line-of sight.

Use of license-free frequency bands ensures that units are ready to use with no further certification requirements. Every unit is backed by a 30-day guarantee and full one-year warranty.

ConnexLink™ USB Highlights

· *Durable industrial-grade enclosure.*
· *Transmits around corners, through walls.*
· *Reliable communication up to 115.2 Kbps.*
· *Point-to-point, point-to-multipoint, peer-to-peer.*

Applications

Weigh Scales
Instantly access weight and measurement data. Link virtually cuts wires to all brands and sizes of scale equipment, from indicators to receipt printers.

Process Control
Set up any factory or lab conveniently. Engineers and technicians can quickly move data links from machine to machine without costly wiring.
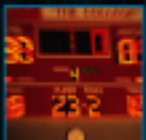
Klosks & P.O.S.
Small and portable, Links make it possible to set up equipment where it best serves customers. Use at retail stores, service stations, events, etc.

Data Logging
Upload data to your PC from your logger or monitor without getting up from the chair. Use Link for level monitoring, control instruments, etc.

Electronic Signs
Faster, cheaper and less invasive than trenching to lay cable. Links simply attach to the serial ports of both the PC and sign or scoreboard.

Specifications

PARAMETER	CL4790-200	CL4490-200
Network architecture	Peer-to-peer	Server/client
Standard interface	USB Standard Type B	USB Standard Type B
Frequency band	902-928 MHz	902-928 MHz
Modulation	FHSS FSK	FHSS FSK
Serial interface data rate	Up to 115.2 Kbps	Up to 115.2 Kbps
Output power	200mW variable	200mW variable
Input power	USB Supplied 5V	USB Supplied 5V
Power draw (@ 12Vdc)	107mA TX, 51mA RX	107mA TX, 51mA RX
Channels	Up to 56	Up to 56
Security	1-byte system ID, DES	1-byte system ID, DES
Sensitivity	-99 dB @ full RF data rate	-99 dB @ full RF data rate
Range (line-of-sight)	Up to 4 miles (6.4 km)	Up to 4 miles (6.4 km)
Temperature	-40° to +80ºC	-40° to +80ºC
Humidity (non-condensing)	10% to 90%	10% to 90%
Dimensions	4.75 x 2.75 x 1.17 inches (121 x 70 x 30 mm)	4.75 x 2.75 x 1.17 inches (121 x 70 x 30 mm)
Weight	< 6 oz (< 170 g)	< 6 oz (< 170 g)
Antenna; connector	Dipole; RPSMA jack (female)*	Dipole; RPSMA jack (female)*
Configuration software	Optional, for Windows OS	Optional, for Windows OS

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

Flexible RF Protocol

AeroComm's embedded transparent protocol simplifies the integration process by allowing for seamless plug-and-play installation. As each unit receives raw data, it manages over-the-air protocol to ensure successful communication. Headers, data packet length, and CRCs are not needed.

RF232 supports simple cable-replacement up to complex peer-to-peer setups. Broadcast communication to all devices or address packets to a specific destination using unique MAC addresses embedded in each unit.

Protocol Features

Features vary by product. Ask an AeroComm Representative to explain why some features are particular to CL4790 or CL4490.
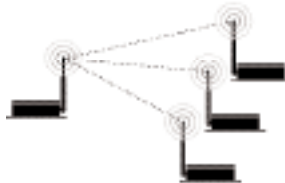
RF PROTOCOL MODES

- **Communication**
  Unicast (one-to-one addressing)
  Broadcast (one-to-many addressing)

- **Acknowledgement mode (ACK)**
  API with hardware
  and/or software ACK indication

- **Handshaking**
  CTS/RTS

- **Variable baud rates**

- **In-range indicator**

- **DES encryption**

- **Raw data or transmit/receive API**

- **Transceiver configuration**
  Destination address
  RF transmit power
  RF Channel
  Broadcast/addressed

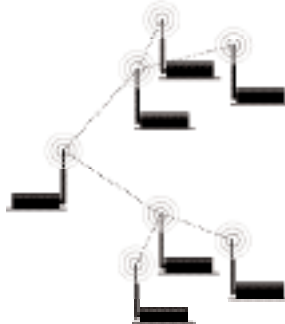- **9-bit serial interface mode**

RF Architectures

**Point-to-point
(CL4490 only)**

**Point-to-multipoint
(CL4490, CL4790)**

**Peer-to-peer mesh
(CL4790 only)**

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

CL4490-200-USB
  900MHz ConnexLink RF device, server/client, 200mW, –40º to +80º C, USB interface

CL4790-200-USB
  900MHz ConnexLink RF device, peer-to-peer, 200mW, –40º to +80º C, USB interface

AEROCOMM