



## THE FASTEST WAY TO WIRELESS

ConnexLink™ stand-alone radio modules set up in minutes to virtually cut the cables between USB devices. Their flexibility and competitive price allow users to quickly upgrade wired terminals to cordless operation in industrial, commercial, and 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.

## FEATURES

- Durable industrial-grade enclosure
- Transmits around corners, through walls
- Point-to-point & point-to-multipoint setups
- Ranges up to 4 miles
- Simple USB connection to PC

## MARKETS

- Weigh Scales
- Process Control
- Kiosks & P.O.S.
- Data Logging
- Electronic Signs

**global solutions: local support.™**

USA: +1 800 492.2320

Europe: +44 1628 858.940

Asia: +852 2268.6567

wirelessinfo@lairdtech.com

[www.lairdtech.com/wireless](http://www.lairdtech.com/wireless)

## FLEXIBLE RF PROTOCOL

Laird Technologies' embedded transparent protocol simplifies the integration process by providing 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 required.

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

The USB connection works as a peripheral device. Software drivers are provided for Windows PCs. It is ideal for use with PCs that do not have an RS232 port.

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

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

## PROTOCOL FEATURES

Features vary by product. Ask a Laird Technologies Representative to explain why some features are particular to CL4790 or CL4490.

## RF PROTOCOL MODES

- a) Communication
  - Unicast (one-to-one addressing)
  - Broadcast (one-to-multiples addressing)
- b) Acknowledgement mode (ACK)
  - API with hardware
  - and/or software ACK indication
- c) Handshaking, CTS/RTS
- d) Variable baud rates
- e) In-range indicator
- f) DES encryption
- g) Raw data or transmit/receive API
- h) Radio Module configuration:
  - Destination address
  - RF transmit power
  - RF channel
  - Broadcast/addressed
- i) 9-bit serial interface mode



## LWS-SPEC-CONNEXLINK-USB 1208

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