



Innovative Technology
for a Connected World

ConnexLink™ Line Card

THE FASTEST WAY TO WIRELESS

- Proprietary communications protocol for secure data transmissions
- FHSS technology for reliable delivery



Wireless cable replacement for RS232, RS485, RS422 and USB devices.

*Higher-gain antenna options are available; ask a sales associate for more information

AC power supply. AC transformer to 7.5Vdc, via 6' cable 100-120v (240 outside U.S.); frequency 50-60 HZ

For more information contact wirelessinfo@lairdtech.com

CONNEXLINK™ PRO

APPLICATION	4490-1000
Network Architecture	Server / Client
Frequency Band	902-928 MHz
Standard Interface	RS485 or RS422, RS232 (DB9 female) Configurable
Modulation	FHSS FSK
Serial Interface Data Rate	Up to 115.2 Kbps
Output Power	1000mW variable
Power Supply	AC Transformer to 7.5Vdc via 6-ft cable (183 cm) or power over pin 9
AC Power Supply	AC Transformer to 7.5Vdc via 6-ft cable 100-120V (240V outside U.S.); Frequency 50-60 Hz
Power Requirements	7-28Vdc, 450mA @ 7.5Vdc
Channels	Up to 32
Security	1-byte system ID, DES
Sensitivity	-99 dB full RF data rate
Range	1500 ft (450m) Indoors; 20 miles (30km) Line-of-sight
Temperature	-40°C to +80°C
Dimensions	4.75 x 2.75 x 1.17 ft (121 x 70 x 30mm)
Weight	< 6 oz (<170 g)
Antenna, Connector	Dipole; RPSMA jack (female)*
Configuration Software	Optional, for Windows OS

CONNEXLINK™

CL2510-100	CL4790-1000	CL4490-1000
Server / Client	Peer-to-Peer	Server / Client
2.402-2.478 GHz	902-928 MHz	902-928 MHz
RS232 (DB9 male)	RS232 (DB9 male) or RS485 (6-pin terminal)	RS232 (DB9 male) or RS485 (6-pin terminal)
FHSS FSK	FHSS FSK	FHSS FSK
Up to 460,800 bps	Up to 115.2 Kbps	Up to 115.2 Kbps
Up to 50mW (conducted)	1000mW variable	1000mW variable
AC Transformer to 7.5Vdc via 6-ft cable (183 cm)	AC Transformer to 7.5Vdc via 6-ft cable (183 cm)	AC Transformer to 7.5Vdc via 6-ft cable (183 cm)
AC Transformer to 7.5Vdc via 6-ft cable 100-120V (240V outside U.S.); Frequency 50-60 Hz	AC Transformer to 7.5Vdc via 6-ft cable 100-120V (240V outside U.S.); Frequency 50-60 Hz	AC Transformer to 7.5dc via 6-ft cable 100-120V (240V outside U.S.); Frequency 50-60 Hz
6-30Vdc, 100mA @ 7.5v	7-18Vdc, 450mA @ 7.5Vdc	7-18Vdc, 450mA @ 7.5Vdc
43 or 79 configurable	Up to 32 in U.S.	Up to 32 in U.S.
1-byte system ID	1-byte system ID, DES	1-byte system ID, DES
-98 dBm at 280kbps RF data rate	-99 dB full RF data rate	-99 dB full RF data rate
Up to one mile (1.6 km)	1500 ft (450m) Indoors; 20 miles (30km) Line-of-sight	1500 ft (450m) Indoors; 20 miles (30km) Line-of-sight
-40°C to +80°C	-40°C to +80°C	-40°C to +80°C
4.75 x 2.75 x 1.17 ft (121 x 70 x 30mm)	4.75 x 2.75 x 1.17 ft (121 x 70 x 30mm)	4.75 x 2.75 x 1.17 ft (121 x 70 x 30mm)
< 6 oz (<170 g)	< 6 oz (<170 g)	< 6 oz (<170 g)
Dipole; RPSMA jack (female)*	Dipole; RPSMA jack (female)*	Dipole; RPSMA jack (female)*
Optional, for Windows OS	Optional, for Windows OS	Optional, for Windows OS

CONNEXLINK USB™

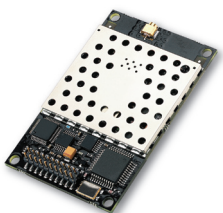
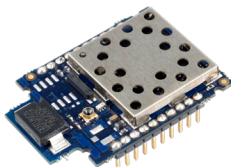
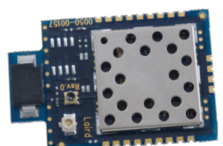
CL4790-200	CL4490-200
Peer-to-Peer	Server / Client
902-928 MHz	902-928 MHz
USB Standard Type B	USB Standard Type B
FHSS FSK	FHSS FSK
Up to 115.2 Kbps	Up to 115.2 Kbps
200 mW variable	200 mW variable
USB-Supplied 5V	USB-Supplied 5V
N/A	N/A
USB-supplied 5Vdc	USB-supplied 5Vdc
Up to 56	Up to 56
1-byte system ID, DES	1-byte system ID, DES
-99 dB full RF data rate	-99 dB full RF data rate
Up to 4 miles (6.4 km)	Up to 4 miles (6.4 km)
-40°C to +80°C	-40°C to +80°C
4.75 x 2.75 x 1.17 ft (121 x 70 x 30mm)	4.75 x 2.75 x 1.17 ft (121 x 70 x 30mm)
< 6 oz (<170 g)	< 6 oz (<170 g)
Dipole; RPSMA jack (female)*	Dipole; RPSMA jack (female)*
Optional, for Windows OS	Optional, for Windows OS

Proprietary Radio Module Line Card

(868MHz, 900 MHz, AND 2.4GHz)

SIMPLE, ROBUST WIRELESS THAT WORKS

- “Out of the box” cable replacement
- Highly robust frequency hopping gives immunity to interference
- Optimized for reliable connections above 1km
- Pin-compatible modules for 868MHz, 910MHz, and 2.4GHz
- Ultimate low-power performance from LT2510 range
- Comprehensive range of development kits
- Packaged products available in Connex range



	868 MHz		900 MHz				2.4 GHz
APPLICATION	AC4486	AC868	AC4490 1x1 [†]	AC4490	AC4790 1x1 [†]	AC4790	LT2510
Protocol	Server/Client	Server/Client	Server/Client	Server/Client	Peer to Peer Mesh Ready	Peer to Peer Mesh Ready	Server/Client
Interface	UART 115kbaud	UART 57.6kbaud	UART 115kbaud	UART 115kbaud	UART 115kbaud	UART 115kbaud	UART 430kbaud
Radio Type	Single Channel	Single Channel	FHSS	FHSS	FHSS	FHSS	FHSS
Channels*	2	1	Up to 31	Up to 31	Up to 31	Up to 31	Up to 78
Ant. Connect	MMCX	MMCX	SMT Pin	MMCX	SMT Pin	MMCX	U.FI/Integrated
Connection	20 way	20 way	SMT	20 way	SMT	20 way	SMT or pluggable
Size (mm)	48 x 42 x 5	48 x 42 x 5	26 x 26 x 6	48 x 42 x 5	26 x 26 x 6	48 x 42 x 5	28 x 44 x 5.4
	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +80°C	-40°C to +85°C
	AC4486-1x1-10	AC4868-250M	AC4490 1x1-10	AC4490-200M	AC4790-1x1-10	AC4790-200M	PRM110 / PRM111/PRM120/PRM121 (FCC/IC)
Power	5mW	250mW	10mW	200mW	10mW	200mW	200mW
Range	900 m	15 km	1.6 km	6 km	1.6 km	6 km	4 km
	AC4486-5M			AC4490-1000		AC4790-1000	PRM112 / PRM113/PRM122/PRM123 (CE)
Power	5mW			1000mW		1000mW	100mW
Range	900 m			32 km		32 km	2 km
				AC4490LR-200			
Power				200mW			
Range				6 km			
				AC4490LR-1000			
Power				1000mW			
Range				50 km			

Integrated Antenna on Models
AC4486-5A, AC4868-5A,
AC4490-200A, AC4790-200A,
PRM111, PRM113, PRM121 & PRM123

Enhanced Low Noise Amplifier
for Extreme Range on LR Models

*- Channels are user selectable
†-Module is **not** FCC or CE-approved

For more information contact
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