

# LAIRD TECHNOLOGIES Wireless System Modules



## WIRELESS ETHERNET BRIDGE CONNEXLAN 400

Based on Laird Technologies' WISM+ 802.11 embedded module, the CL400 series of wireless Ethernet bridges provide outstanding data throughput over long ranges in a ruggedized industrial package. The CL400 Ethernet Bridge products are ideal for users looking for a simple to use wireless Ethernet bridge. Available with an AC power adapter, standard RJ-45 Ethernet jack and antennas, the CL400 come prepackaged with all necessary accessories. With no configuration necessary, users can simply plug in their Ethernet cable and apply power and have a wireless bridge at distance up to 1 mile and speeds up to 11Mbps. Optimized for point-to-point bridge connections the CL400 starter packs come pre-configured to communicate over a WPA2-CCMP encrypted secure 802.11 RF channel. The intelligent devices will optimize link speeds according to the RF conditions and distances between the units.

**Features:**

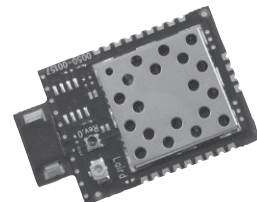
- Easy to use, no configuration necessary
- Standard 10/100 RJ-45 Ethernet Jack
- Auto Sensing interface for connection to peripherals or network devices
- Optimized RF Data rates dependant on conditions
- AES encrypted wireless link
- RF Speeds up to 11Mbps
- Line of sight distances up to 1 mile

MOUSER STOCK NO.	Laird Tech Part No.	Description	Approved Countries	Price Each
<b>814-CL400-SP</b>	CL400-SP	Wifi Ethernet Bridge Starter Pak-Americas	USA	<b>560.00</b>

## FLEXRF® 915MHZ AND 2.4GHZ WIRELESS MODULES

Laird Technologies' fifth generation 2.4 GHz FHSS module sets the standard for industrial RF communication. Based on proprietary FlexRF™ technology, this globally-accepted module will exceed most OEM application and performance requirements. Embedded with Laird Technologies' robust server-client protocol, the LT2510 permits each module to communicate with any other in-range module for true peer-to-peer operation. "Out of range" modules can be reached via a meshing topology. The configuration and test software enables OEMs to structure and optimize the network to suit their application.

Laird Technologies' third generation 915MHz FHSS module sets yet another standard for industrial RF communication. Based on proprietary FlexRF™ technology, this globally-accepted module will exceed most OEM application and performance. From the OEM integrator's point of view, the LT1110's interface (API, configuration, etc) is 100% compatible with the LT2510 allowing the OEM to choose either 915MHz or 2.4GHz. The enhanced API commands provide packet routing control and network intelligence. With its field-proven proprietary FHSS RF protocol and increased penetration at 915 MHz, the LT1110 rejects RF noise, excels in multipath scenarios, allows for co-located systems, and provides an extremely reliable communication link.



MOUSER STOCK NO.	Laird Tech Part No.	Description	Approved Countries	Price Each	
				1	50
<b>LT2510 24GHz RF Module and Kit</b>					
<b>814-DVK-PRM210</b>	DVK-PRM210	RF Modules and Development Tools 3.3VTTTL 10mW SMT KIT U.FL Jack	Worldwide	<b>199.00</b>	-
<b>LT1110 915MHz Wireless Modules</b>					
<b>814-PRM210</b>	PRM210	RF Modules and Development Tools 900MHz SMT 3.3V TTL 10mW U.FL Jack	Worldwide	<b>30.25</b>	<b>26.95</b>
<b>814-PRM211</b>	PRM211	915MHz SMT 3.3V TTL 10mW Chip Antenna	Worldwide	<b>31.20</b>	<b>27.80</b>
<b>814-PRM220</b>	PRM220	Pluggable 3.3V TTL 915MHz 10mW U.FLJack	Worldwide	<b>37.65</b>	<b>33.55</b>
<b>814-PRM221</b>	PRM221	Pluggable 3.3V TTL 915MHz 10mW Chip Ant	Worldwide	<b>39.00</b>	<b>34.75</b>
<b>814-PRM240</b>	PRM240	900MHz OEM Transceiver Plug, 3.3V 200mW u.FL Jack	Worldwide	<b>53.10</b>	<b>47.10</b>
<b>814-PRM241</b>	PRM241	900MHz OEM Transceiver Plug, 3.3V 200mW Chip Ant	Worldwide	<b>53.60</b>	<b>47.55</b>
<b>LT1110 915MHz Developer Kit and Evaluation Boards</b>					
<b>814-DVK-PRM211</b>	DVK-PRM211	LT1110 Development Kit 3.3VTTLSerial SMTKIT 10mW Chip Ant	Worldwide	<b>199.00</b>	-
<b>814-EVB-PRM211-U</b>	EVB-PRM211-U	LT1110 USB Evaluation Board 3.3V TTL Serial Eval Board 10mW Chip Ant	Worldwide	<b>99.00</b>	-
<b>814-EVB-PRM211-R</b>	EVB-PRM211-R	LT1110 RS232 Evaluation Board 3.3V TTL Serial Eval Board 10mW Chip Ant	Worldwide	<b>99.00</b>	-
<b>814-DVK-PRM220</b>	DVK-PRM220	LT1110 Development Kit 3.3V TTL Serial Plug KIT 10mW u.FLJack	Worldwide	<b>199.00</b>	-
<b>814-DVK-PRM221</b>	DVK-PRM221	LT1110 Development Kit 3.3V TTL Serial Plug KIT 10mW Chip Ant	Worldwide	<b>199.00</b>	-
<b>814-EVB-PRM210-U</b>	EVB-PRM210-U	LT1110 USB Evaluation Board 3.3V TTL Eval Brd 10mW u.FL Jack	Worldwide	<b>99.00</b>	-
<b>814-EVB-PRM210-R</b>	EVB-PRM210-R	LT1110 RS232 Evaluation Board 3.3V TTL Eval Brd 10mW u.FL Jack	Worldwide	<b>99.00</b>	-
<b>814-DVK-PRM240</b>	DVK-PRM240	LT1110 Developer Kit Plug, 3.3V 200mW u.FL Jack	Worldwide	<b>199.00</b>	-
<b>814-DVK-PRM241</b>	DVK-PRM241	LT1110 Developer Kit Plug, 3.3V 200mW Chip Ant	Worldwide	<b>199.00</b>	-

## BLUETOOTH MODULE KIT

The development board allows the Laird Bluetooth or Wireless W-LAN Module to be connected to a PC. The development board provides RS-232 level conversion through a standard 9 way D type connector to all pins of the 40 way and a 50 way Hirose connectors used by Bluetooth or Wireless LAN interface.



MOUSER STOCK NO.	Laird Tech Part No.	Description	Price Each
<b>239-BISDK02BI-02</b>	BISDK02BI-02	BISMII and High Speed USB adapter	<b>180.88</b>
<b>Accessories</b>			
<b>239-ACC-005</b>	ACC-005	Winbond W681360 Audio Codec Board	<b>204.57</b>
<b>239-CWAA-00007-02</b>	CWAA-00007-02	5.1mm black 1K - pcs Mounting Pillars	<b>170.77</b>

## BLUETOOTH MODULES

Laird's Bluetooth embedded modules are designed with compatibility in mind. Laird's Bluetooth Intelligent Serial technology. The pin configuration and physical dimensions of both the Wireless Module (BISM) are the same giving you the choice of wireless.



MOUSER STOCK NO.	Laird Tech Part No.	Fig.	Description	Price Each
<b>239-BTM431</b>	BTM431	-	Bluetooth AT Data Module, Internal Antenna w/ BISM II	<b>22.10</b>
<b>239-BTM443</b>	BTM443	-	Bluetooth AT Data Module, Internal Antenna, Enhanced	<b>22.10</b>
<b>239-DVK-BTM431</b>	DVK-BTM431	-	Bluetooth Dev Kit for BTM431	<b>165.00</b>
<b>239-DVK-BTM443</b>	DVK-BTM443	-	Bluetooth Dev Kit for BTM443	<b>165.00</b>
<b>239-TRBLU23-00200</b>	TRBLU23-00200	A	BISMII Bluetooth v2.0 Module	<b>42.31</b>
<b>239-TRBLU23-00300</b>	TRBLU23-00300	A	BISMII - uFL connector	<b>42.31</b>
<b>239-BTM411</b>	BTM411	-	Class 2 Bluetooth AT Data Module, Internal Antenna	<b>22.10</b>
<b>239-DVK-BTM411</b>	DVK-BTM411	-	Bluetooth AT Data Module, Internal Antenna Dev Kit	<b>165.00</b>
<b>239-BTM402</b>	BTM402	A	BISM II - Power Amp (PA)	<b>46.27</b>
<b>239-BISMS02BI</b>	BISMS02BI	B	Surface Mount BISM II	<b>32.86</b>
<b>239-BISMS02BI-NA</b>	BISMS02BI-NA	B	Surface Mount BISM II - uFL connector	<b>32.86</b>
<b>239-BRBLU03-010A0</b>	BRBLU03-010A0	-	High Speed Bluetooth USB Adapter	<b>45.22</b>
<b>239-BTM410</b>	BTM410	-	BlueTooth DATA Module AT Module	<b>19.82</b>
<b>239-DVK-BTM410</b>	DVK-BTM410	-	Dev Kit/BlueTooth DATA Module AT Module	<b>165.00</b>
<b>239-BTM421</b>	BTM421	-	BlueTooth DATA Module HCI	<b>22.10</b>
<b>239-DVK-BTM421</b>	DVK-BTM421	-	Dev Kit/BlueTooth DATA Module HCI	<b>165.00</b>
<b>239-BTM511</b>	BTM511	-	BlueTooth Multimedia, (formerly BlueTooth Voice)	<b>26.56</b>

