

# LAIRD TECHNOLOGIES Wireless Modules and Transceivers

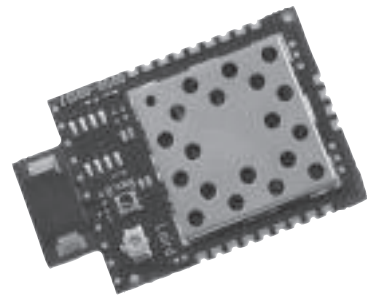


Wireless Solutions

## FLEXRF® 2.4GHZ WIRELESS MODULE

### 2.4GHz OEM Transceiver Family

Laird Technologies' fifth generation 2.4GHz 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 an unlimited number of clients to synchronize to a single server for low latency communications. The server and all clients in a network can communicate with any radio in range via either address or broadcast packets. The configuration and test software allows OEMs to design and test networks to suit their applications. Enhanced API commands provide packet routing control and network intelligence. With its field-proven FHSS air interface protocol, the LT2510 rejects RF noise, excels in multipath scenarios, allows for co-located systems, and provides an extremely reliable communication link. It also provides a more robust, but simpler, link than ZigBee for RF applications that do not require a mesh topology. With a throughput of up to 250Kb/s in half-duplex mode, LT2510 delivers speedy data rates. In addition, variable output power options (up to +21dBm) enable communication over distances that aren't achievable with competing technologies. At the same time, a range of ultra-low power modes plus low Tx/Rx power consumption make the LT2510 ideal for power-restrictive or battery-operated applications. The mini SMT package is well-suited for space-constrained designs and is available in pick-and-place packaging for volume manufacturing.

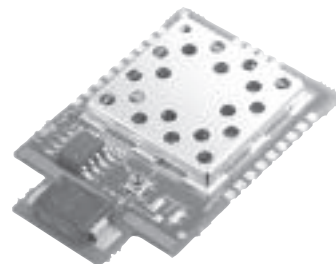


| MOUSER STOCK NO.   | Laird Tech Part No. | Description   | Approved Countries | Price Each |       |
|--|---------------------|---|--------------------|------------|-------|
|  |                     |   |                    | 1          | 50    |
| <b>LT2510, Industrial Temperature (-40° to 80°C)</b>                                 |                     |   |                    |            |       |
| 814-PRM110   | PRM110              | 2.4GHz OEM Transceiver, SMT, 3.3V TTL, 100mW, u.FL Jack                               | USA                | 35.50      | 33.61 |
| 814-PRM111   | PRM111              | 2.4GHz OEM Transceiver, SMT, 3.3V TTL, 100mW, Chip Ant                                | USA                | 35.50      | 33.61 |
| 814-PRM112   | PRM112              | 2.4GHz OEM Transceiver, SMT, 3.3V TTL, 100mW, u.FL Jack, CE Approved                  | Worldwide          | 35.50      | 33.61 |
| 814-PRM113   | PRM113              | 2.4GHz OEM Transceiver, SMT, 3.3V TTL, 100mW, Chip Ant, CE Approved                   | Worldwide          | 35.50      | 33.61 |
| 814-PRM120   | PRM120              | 2.4GHz OEM Transceiver, Pluggable, 3.3V TTL, 100mW, u.FL Jack                         | USA                | 37.95      | 35.96 |
| 814-PRM121   | PRM121              | 2.4GHz OEM Transceiver, Pluggable, 3.3V TTL, 100mW, Chip Ant                          | USA                | 37.95      | 35.96 |
| 814-PRM122   | PRM122              | 2.4GHz OEM Transceiver, Pluggable, 3.3V TTL, 100mW, u.FL Jack, CE Approved            | Worldwide          | 37.95      | 35.96 |
| 814-PRM123   | PRM123              | 2.4GHz OEM Transceiver, Pluggable, 3.3V TTL, 100mW, Chip Ant, CE Approved             | Worldwide          | 37.95      | 35.96 |
| 814-PRM130   | PRM130              | 2.4GHz OEM Transceiver, Pluggable, 3.3V TTL, 100mW, u.FL Jack, AC4424 Size            | USA                | 42.95      | 40.76 |
| 814-PRM132   | PRM132              | 2.4GHz OEM Transceiver, Pluggable, 3.3V TTL, 100mW, Chip Ant, CE Approved AC4424 Size | Worldwide          | 42.95      | 40.76 |
| <b>LT2510 Developer Kit &amp; Eval Boards, Industrial Temperature (-40° to 80°C)</b> |                     |   |                    |            |       |
| 814-DVK-PRM110   | DVK-PRM110          | LT2510 Developer Kit, SMT, 3.3V TTL, 100mW, u.FL Jack                                 | USA                | 199.00     | -     |
| 814-EVB-PRM110-U   | EVB-PRM110-U        | LT2510 USB Eval Board, SMT, 3.3V TTL, 100mW, u.FL Jack                                | USA                | 99.00      | -     |
| 814-EVB-PRM110-R   | EVB-PRM110-R        | LT2510 RS232 Eval Board, SMT, 3.3V TTL, 100mW, u.FL Jack                              | USA                | 99.00      | -     |
| 814-DVK-PRM111   | DVK-PRM111          | LT2510 Developer Kit, SMT, 3.3V TTL Serial, 100mW, Chip Ant                           | USA                | 199.00     | -     |
| 814-EVB-PRM111-U   | EVB-PRM111-U        | LT2510 USB Eval Board, SMT, 3.3V TTL Serial, 100mW, Chip Ant                          | USA                | 99.00      | -     |
| 814-EVB-PRM111-R   | EVB-PRM111-R        | LT2510 RS232 Eval Board, SMT, 3.3V TTL Serial, 100mW, Chip Ant                        | USA                | 99.00      | -     |
| 814-DVK-PRM112   | DVK-PRM112          | LT2510 Developer Kit, SMT, 3.3V TTL, 100mW, u.FL Jack, CE Approved                    | Worldwide          | 199.00     | -     |
| 814-EVB-PRM112-U   | EVB-PRM112-U        | LT2510 USB Eval Board, SMT, 3.3V TTL, 100mW, u.FL Jack, CE Approved                   | Worldwide          | 99.00      | -     |
| 814-EVB-PRM112-R   | EVB-PRM112-R        | LT2510 RS232 Eval Board, SMT, 3.3V TTL, 100mW, u.FL Jack, CE Approved                 | Worldwide          | 99.00      | -     |
| 814-DVK-PRM113   | DVK-PRM113          | LT2510 Developer Kit, SMT, 3.3V TTL Serial, 100mW, Chip Ant, CE Approved              | Worldwide          | 199.00     | -     |
| 814-EVB-PRM113-U   | EVB-PRM113-U        | LT2510 USB Eval Board, SMT, 3.3V TTL Serial, 100mW, Chip Ant, CE Approved             | Worldwide          | 99.00      | -     |
| 814-EVB-PRM113-R   | EVB-PRM113-R        | LT2510 RS232 Eval Board, SMT, 3.3V TTL Serial, 100mW, Chip Ant, CE Approved           | Worldwide          | 99.00      | -     |
| 814-DVK-PRM120   | DVK-PRM120          | LT2510 Developer Kit, Pluggable, 3.3V TTL Serial, 100mW, u.FL Jack                    | USA                | 199.00     | -     |
| 814-DVK-PRM121   | DVK-PRM121          | LT2510 Developer Kit, Pluggable, 3.3V TTL Serial, 100mW, Chip Ant                     | USA                | 199.00     | -     |
| 814-DVK-PRM122   | DVK-PRM122          | LT2510 Developer Kit, Pluggable, 3.3V TTL Serial, 100mW, u.FL Jack, CE Approved       | Worldwide          | 199.00     | -     |
| 814-DVK-PRM123   | DVK-PRM123          | LT2510 Developer Kit, Pluggable, 3.3V TTL Serial, 100mW, Chip Ant, CE Approved        | Worldwide          | 199.00     | -     |

## ZB2430 OEM ZIGBEE TRANSCEIVER FAMILY

### Long Range "ZB2430" OEM ZigBee Transceivers (2.4GHz, 3V, 2-100mW)

Based on Texas Instruments' leading edge 802.15.4 SoC & Z-Stack™ technology, ZB2430 is one of the most powerful ZigBee-compliant solutions on the market today. It provides OEMs with industry-leading 2.4GHz module performance in low power conservation, ease of integration, range, features and functionality. ZB2430 is ideal for power-restricted or battery-powered applications. Its receive and powerdown performance offer OEMs the lowest power consumption of any comparable transceiver module. Since it operates in the 2.4GHz ISM band, the module can be used globally—allowing OEMs to standardize on a single platform. Although the IEEE 802.15.4 (PHY & MAC) and ZigBee stack are industry standards, our flexible approach allows OEMs to customize a solution specific to their application needs. With the embedded Z-stack, ZB2430 is aimed squarely at secure, low-power, mesh network applications. Modules are offered as Coordinators, Routers or End Devices. Network scan, remote configuration, dynamic routing, discovery, security... All unleash the full power of ZigBee. The Development Kit platform and test utility allow the OEM to explore the best of ZigBee—straight out of the box.



| MOUSER STOCK NO.  | Laird Tech Part No. | Description   | Approved Countries | Price Each |       |
|---|---------------------|---|--------------------|------------|-------|
|   |                     |   |                    | 1          | 50    |
| <b>High Power ZigBee Coordinator</b>                            |                     |   |                    |            |       |
| 814-Z100S1AFC   | Z100S1AFC           | Zigbee Coordinator, SMT, 100mW, OTA, Chip Antenna               | Worldwide          | 28.50      | 28.00 |
| 814-Z100S1UFC   | Z100S1UFC           | Zigbee Coordinator, SMT, 100mW, OTA, u.FL Jack                  | Worldwide          | 29.95      | 28.32 |
| <b>High Power ZigBee Router</b>                                 |                     |   |                    |            |       |
| 814-Z100S1AFR   | Z100S1AFR           | Zigbee Router, SMT, 100mW, OTA, Chip Antenna                    | Worldwide          | 28.50      | 28.00 |
| 814-Z100S1UFR   | Z100S1UFR           | Zigbee Router, SMT, 100mW, OTA, u.FL Jack                       | Worldwide          | 29.95      | 28.32 |
| <b>High Power ZigBee End Device</b>                             |                     |   |                    |            |       |
| 814-Z100S1AFE   | Z100S1AFE           | Zigbee End Device, SMT, 100mW, OTA, Chip Antenna                | Worldwide          | 28.50      | 28.00 |
| 814-Z100S1UFE   | Z100S1UFE           | Zigbee End Device, SMT, 100mW, OTA, u.FL Jack                   | Worldwide          | 29.95      | 28.32 |
| <b>High Power ZigBee Developer Kits - Surface Mount Package</b> |                     |   |                    |            |       |
| 814-EVB-Z100S1AFC   | EVB-Z100S1AFC       | Zigbee Eval Board Coordinator-USB, 100mW, OTA, SMT, Chip Ant    | Worldwide          | 99.00      | -     |
| 814-EVB-Z100S1AFC-2   | EVB-Z100S1AFC-2     | Zigbee Eval Board Coordinator-RS232, 100mW, OTA, SMT, Chip Ant  | Worldwide          | 99.00      | -     |
| 814-EVB-Z100S1UFC   | EVB-Z100S1UFC       | Zigbee Eval Board Coordinator-USB, 100mW, OTA, SMT, u.FL Jack   | Worldwide          | 99.00      | -     |
| 814-EVB-Z100S1AFC-2   | EVB-Z100S1AFC-2     | Zigbee Eval Board Coordinator-RS232, 100mW, OTA, SMT, u.FL Jack | Worldwide          | 99.00      | -     |
| 814-EVB-Z100S1AFR   | EVB-Z100S1AFR       | Zigbee Eval Board Router-RS232, 100mW, OTA, SMT, Chip Ant       | Worldwide          | 99.00      | -     |
| 814-EVB-Z100S1UFR   | EVB-Z100S1UFR       | Zigbee Eval Board Router-RS232, 100mW, OTA, SMT, u.FL Jack      | Worldwide          | 99.00      | -     |
| 814-EVB-Z100S1AFE   | EVB-Z100S1AFE       | Zigbee Eval Board End Device-RS232, 100mW, OTA, SMT, Chip Ant   | Worldwide          | 99.00      | -     |
| 814-EVB-Z100S1UFE   | EVB-Z100S1UFE       | Zigbee Eval Board End Device-RS232, 100mW, OTA, SMT, Chip Ant   | Worldwide          | 99.00      | -     |
| <b>2.4 GHz Accessories</b>                                      |                     |   |                    |            |       |
| 814-0650-00005  | 0650-00005          | Power Supply, 7.5 VDC, 1.5 A, Sw. Reg., 100 - 240 VAC input     | Worldwide          | 20.00      | 19.25 |
| <b>2.4 GHz Antennas &amp; Cables</b>                            |                     |   |                    |            |       |
| 814-0600-00040  | 0600-00040          | S181FL-6-PX-2450S, 1/2 wave, 5", 2dBi, RA, u.FL plug            | Worldwide          | 10.65      | -     |
| 814-0600-00014  | 0600-00014          | S181AH-2450S, 1/2 wave, 5", 2dBi, RA, RPSMA                     | Worldwide          | 13.42      | 13.15 |
| 814-0600-00039  | 0600-00039          | S151FL-5-PX-2450S, 7", 5dBi, RA, u.FL plug                      | Worldwide          | 10.65      | -     |
| 814-0600-00010  | 0600-00010          | S151AH-2450S, 7", 5dBi, RA, RPSMA                               | Worldwide          | 14.64      | 14.25 |



NEW TECHNOLOGY