



BT730 Series Class 1 Bluetooth v2.0 Module



Every BT730 series Bluetooth® module from Laird Technologies is designed to add robust, long-range Bluetooth data connectivity to any device. Based on the market-leading Cambridge Silicon Radio (CSR) BC04 chipset, BT730 modules provide exceptionally low power consumption with outstanding Class 1 range via 18 dBm of transmit power. A broad range of Bluetooth profiles such as Serial Port Profile (SPP) and other vital features make BT730 modules superior to other Bluetooth modules.

With a compact footprint of 15.29 x 28.71 mm, the modules deliver maximum range with a minimum size. Another integration advantage is the inclusion of a complete Bluetooth v2.0 protocol stack with support for multi-point connections and numerous Bluetooth profiles, including Serial Port Profile (SPP), Dial Up Networking (DUN), FTP Client plus partial support for Headset (HSP), and HandsFree (HFP). BT730 modules are fully qualified as a Bluetooth End Products, enabling designers to integrate the modules in devices without the need for further Bluetooth Qualification.

An integrated AT command processor interfaces to the host system over a serial port using an extensive range of AT commands. The AT command set abstracts the Bluetooth protocol from the host application, saving many months of programming and integration time. It provides extremely short integration times for data oriented Bluetooth applications.

Included firmware provides programming support for multi-point applications that use up to three simultaneous data connections to and from the robust BT730 module. A low-cost developer's kit makes it easy for an OEM to integrate the module and guarantees the fastest route to prototype and then mass production.

Features & Benefits

- Bluetooth v2.0
- External or Internal Antennas
- Comprehensive AT command set
- Bluetooth EPL
- Compact Footprint
- Class 1 output - 18dBm
- UART interface with GPIO, PCM & ADC lines
- Industrial Temperature range
- Field Proven firmware used on BTM40x and BISM II product ranges

Application Areas

- Medical devices
- ePOS terminals
- Automotive Diagnostic Equipment
- Barcode Scanners
- Industrial Cable Replacement

global solutions: local support.

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Full detailed product documentation is available at:

<http://www.lairdtech.com/Products/Embedded-Wireless-Solutions/Bluetooth-Radio-Modules/BT700-Series/BT730/>

The details contained within the document are subject to change.



BT730 Series

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| CATEGORIES | FEATURE | IMPLEMENTATION |
|------------------------|-------------------------|---|
| Wireless Specification | Bluetooth® | V2.0 |
| | Frequency | 2.402 - 2.480 GHz |
| | Max Transmit Power | Class 1 18dBm from antenna |
| | Receive Sensitivity | Better than -87dBm |
| | Range | Up to 1000m |
| | Data Rates | Up to 2.1Mbps (over the air) |
| | UART Data Transfer Rate | Circa 300kbps |
| Host Interface | UART | TX, RX, DCD, RI, DTR, DSR, CTS, RTS Default 9600, n,8, 1 From 1,200 to 921,600bps |
| | GPIO | 8 configurable lines |
| | ADC | 2 lines, 8 bit resolution |
| Profiles | SPP | Serial Port Profile |
| | DUN | Dial Up Networking |
| | FTP Client | File Transfer Client |
| | HFP & HSP (Partial) | Hands Free & Headset |
| Control Protocols | | AT Command Set - 1 connection Multi-Point API - 3 simultaneous connections |
| Supply Voltage | Supply | 3.3 – 5.0V |
| | I/O | 3.3V |
| Power Consumption | Current | Idle Mode – 1.25mA Transmit (Max Data) – 35mA |
| Antenna Options | Internal | Multilayer ceramic - BT730-SA |
| | External | Connection via u.FL - BT730-SC |
| Physical | Dimensions | 15.29 mm x 28.71 mm x 3 mm |
| Environmental | Operating | -40C to +85C |
| Miscellaneous | Lead Free | Lead-free and RoHS compliant |
| | Warranty | 1 Year |
| Development Tools | Development Kit | Development board and Software Tools |
| Approvals | Bluetooth® | End Product Listing (EPL) |
| | FCC / IC / CE | All BT730 Series |

Ordering Information

| | |
|---------------|---|
| BT730-SA | Class 1 Bluetooth v2.0 Module (internal antenna) |
| BT730-SC | Class 1 Bluetooth v2.0 Module (u.FL connector) |
| DVK- BT730-SA | Development Kit (internal antenna) |
| DVK- BT730-SC | Development Kit (u.FL connector) |

LWS-DS-BT730-0713

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