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

Full detailed product documentation is available at:

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

global solutions: local support

USA: +1.800.492.2320
Europe: +44.1628.858.940
Asia: +852.2923.0610

wirelessinfo@lairdtech.com
www.lairdtech.com/bluetooth

The details contained within the document are subject to change.

BT730 Series

Class 1 Bluetooth v2.0 Module

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 to1000m
	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
Any information furnished by Laird Technologies, Inc. and its agents is believed to be accurate and reliable. All specifications are subject to change without notice. Responsibility for the use and application of Laird Technologies materials rests with the end user. Laird Technologies makes no warranties as to the fitness, merchantability, suitability or non- infringement of any Laird Technologies materials or products for any specific or general uses. Laird Technologies shall not be liable for incidental or consequential damages of any kind. All Laird Technologies products are sold pursuant to the Laird Technologies' Terms and Conditions of sale in effect from time to time, a copy of which will be furnished upon request. © Copyright 2013 Laird Technologies, Inc. All Rights Reserved. Laird, Laird

Technologies, the Laird Technologies Logo, and other marks are trademarks or registered trademarks of Laird Technologies, Inc. or an affiliate company thereof. Other product or service names may be the property of third parties. Nothing herein provides a license under any Laird Technologies or any third party intellectual property rights.