



Every BT730 series Bluetooth® module from Laird Connectivity 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 & Benefit

- Bluetooth v2.0
- External or internal antennas
- Comprehensive AT command set
- Bluetooth EPL
- Compact footprint
- Class 1 output - 18dBm
- UART interface with GPIO, PCM, and 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:

<https://www.lairdconnect.com/wireless-modules/bluetooth-modules/bluetooth-20-21-and-30-modules/bt730-series-bluetooth-module>

The details contained within the document are subject to change.

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

## Ordering Information

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