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Item # TRBLU23-00300-01, TRBLU23 Bluetooth® Intelligent Serial Module

Stock Locator

The Bluetooth Intelligent Serial Module is specifically designed for applications where robust short range connectivity is required. This particular module provides a reliable Bluetooth connection that exceeds all requirements in terms of performance. Having an excellent range of up to 300 meters with very low power consumption of less than 36 mA makes this module a true class leader.

Key Features

- Best in class range, providing open field connectivity in excess of 300 meters
- Integrated high performance ceramic antenna
- Adaptive Frequency hopping to cope with interference from other wireless products
- Optimized receive sensitivity to provide long range initial connections that largely eliminate connection Hysteresis
- A full industrial operating temperature range of -40°C to +85°C
- Data transfer rate up to 300 kbps
- Fully approved product - no further approval costs
- Class 1 version 2.0 Bluetooth
- Receive sensitivity better than -84 dBm
- Support for 128 bit encryption
- Non-discoverable modes
- 40 way Hirose connector
- 2 X 8 bit ADC's
- 9 X GPIO
- Low power modes
- Lead free
- 2 year warranty

As well as incorporating a fully approved embedded Bluetooth protocol stack, the module includes a comprehensive AT style interface, which dramatically reduces the development time of applications from months to days.

This module provides the very best package for embedding into your applications and is contained within a compact profile.

The Laird Technologies Intelligent Bluetooth Serial Module is specifically designed for companies wanting to add short range wireless connectivity to their products. It provides the fastest route to market by incorporating a complete, prequalified Bluetooth stack and profiles, along with a simple AT command based programming interface.

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Specifications

Description	BISM2 with standard AT firmware and miniature U.FL connector for an external antenna
Max. Data Transfer Rate	300 Kbps
Firmware Version	Version 2.11.0
Bluetooth	Class 1
Frequency	2.400 to 2.485 GHz
Max. Transmit Power	+ 6 dBm
Min. Transmit Power	- 27 dBm
Typical Low Power Sniff	2.5 mA
Receive Sensitivity	Better than -84 dB
Max. Range	300 meter free space
Serial Interface	3.3 v UART
GPIO	9 x Digital
Serial Parameters	Default 9600, n, 8, 1 DTR, DSR, RTS, CTS, DCD, RI DCE or DTE mode From 1200 to 921600 bps
Current Consumption (Idle Mode)	13 mA
Current Consumption (Connected as Master)	20 mA
Current Consumption (Connected as Slave)	30 mA
Dimensions	25 x 35 x 10 mm
Weight	8 g
Fully Bluetooth Qualified	Bluetooth 2.0
Lead free	RoHS compliant
Temperature Range	-40 to +85 °C
Audio	Supported
Multipoint	Supported
Field Upgrades	Over UART
ADC	2 x 8bit
RoHS Compliant	Yes
Protocols	AT command set Multipoint UART
Environmental Tests	IEC 60068-2-1:1990 IEC 60068-2-14:1984 IEC 60068-2-2:1974 IEC 60068-2-29:1987 IEC 60068-2-30:1980 IEC 60068-2-56:1988 SAE 1455:REVAug94 Paragraph 4.10.4 (shock) SAE 1455:REVAug94 Paragraph 4.9.4.2 (random)

Benefits

- Fastest time to market
- Range and reliability
- Low power
- Low cost of ownership
- Ideal for embedded systems
- Robust design
- Extensive technical support
- No host stack required
- Support for encryption data and authentication
- Excellent immunity to interference from adaptive frequency hopping
- Ideal for embedded systems

Features

- Version 2.0 Bluetooth
- Adaptive Frequency Hopping
- Supports Wi-Fi co-existence
- Fully approved end product - No approval cost
- Embedded Bluetooth stack
- Integrated antenna with up to 300 m range
- Simple AT style command set interface
- Configurable General Purpose Input Outputs
- 8bit Analogue to Digital Converter
- Industrial Temperature range
- Wide ranging profile support: SPP, DUN, headset, audio gateway, hands free and FTP client
- High Performance ceramic patch antenna
- Temperature range -40 °C to +85 °C
- Data transfer rate up to 300 kbps
- On board voltage regulator
- 3.3 v UART
- Multipoint support
- Transmit power +6 dBm
- Support for 128 bit encryption
- 40 way Hirose connector
- Field upgradeable
- Receive sensitivity better than -84 dB
- two 8 bit ADCs, 9 GPIOs
- PCM supported for audio SCO +ESCO
- Size 25 x 35 x 10 mm
- Lead free - RoHS compliant
- 2 year warranty

Applications

- Automotive
- Healthcare
- ePOS
- Logistics

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