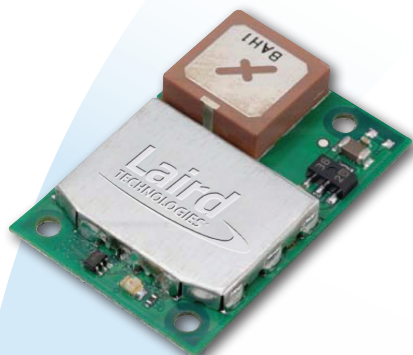


Bluetooth® Intelligent Serial Module



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. The 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 provides open field connectivity in excess of 300 meters
- Integrated high-performance ceramic antenna
- Adaptive frequency hopping to cope with interference from other wireless products
- Optimised 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
- 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 ADCs
- 9 X GPIO
- Low power modes
- Lead free
- 2 year warranty
- Supports Wi-Fi co-existence
- Embedded Bluetooth stack
- Integrated antenna with up to 300m range
- External antenna version available

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

global solutions: local support™

USA: +1.800.492.2320

Europe: +44.1628.858.940

Asia: +852.2268.6567

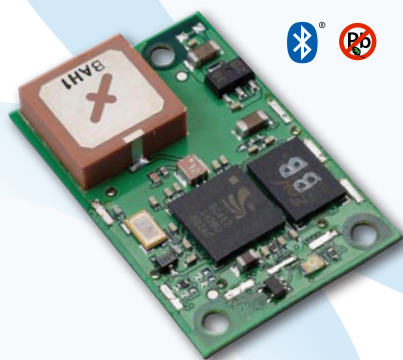
wirelessinfo@lairdtech.com

www.lairdtech.com/wireless

TRBLU23

Bluetooth® Intelligent Serial Module

FEATURE	IMPLEMENTATION
Bluetooth®	Class 1
Frequency	2.402 – 2.480 GHz
Max Transmit Power	+6dBm (internal antenna - TRBLU23-00200) +4dBm (at u.fl connector - TRBLU-23-00300)
Min Transmit Power	-27dBm
Low Power Sniff	2.5mA typical
Receive Sensitivity	Better than -84 dB
Range	300 m (free space)
Serial Interface	3.3v UART
GPIO	9 x Digital
Serial Parameters	Default 9600,n,8,1 From 1200 to 921600bps DTR, DSR, RTS, CTS, DCD, RI DCE or DTE mode
Current Consumption	Idle mode = 13mA Connected as master = 20mA
Physical Size	25.0 x 35.0 x 7.6mm, 8g
Antenna	Internal Multilayer Ceramic External Connection via u.fl connector
Bluetooth Qualified	Bluetooth 2.0
Lead Free	RoHS compliant
Temperature Range	-40°C to +85°
Interface Levels	3.3V
Audio	Supported
Multipoint	Supported
Field Upgrades	Over UART
ADC	2 x 8bit
Protocols	UART AT command set Multipoint
Data Transfer Rate	Up to 300 kbps



ORDERING INFORMATION

TRBLU23-00200 Bluetooth Serial Module with integrated antenna

TRBLU23-00300 Bluetooth Serial Module with u.fl connector for external antenna

The details contained within the document are subject to change.
Download the product specification from www.lairdtech.com/wireless
for the most current specification.

LWS-SPEC-TRBLU23 0309

Any information furnished by Laird Technologies and its agents is believed to be accurate and reliable. Responsibility for the use and application of Laird Technologies materials rests with the end user since Laird Technologies and its agents cannot be aware of all potential uses. Laird Technologies makes no warranties as to the fitness, merchantability, or suitability 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. For further information please visit our website at www.lairdtech.com. Alternatively contact: wirelessinfo@lairdtech.com. Bluetooth® is a trademark owned by Bluetooth SIG, Inc., USA and licensed to Laird Technologies.

© 2009 All Rights Reserved. Laird Technologies is a registered trademark of Laird Technologies, Inc.

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692
Email amall@ameya360.com
QQ 800077892
Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333
Email mkt@ameya360.com