



The Professional, High-Speed Bluetooth® USB Adapter is the first Bluetooth USB adapter designed specifically to deliver the high data rates of modern technology.

The high reliability design ensures your wireless applications work just as well in the diverse 'real world' deployment locations as in the controlled environment of your engineering lab. Laird Technologies' USB adapter gives you all of the advantages to make the most of any environment and offers the best possible performance to cope with the worst possible environments.

Power is a key performance indicator. Laird Technologies' professional range of products contain a highly optimized radio that works at an extended range using 10% of the power consumption of other Bluetooth solutions. This unprecedented power control ensures that your mobile products will work longer.

The USB adapter contains a fully compliant Bluetooth HCI interface enabling it to run with any approved Bluetooth protocol stack. With Microsoft Windows XP SP2, Vista and Windows CE it is truly plug and play.

#### KEY FEATURES

- Best in class range, providing open field connectivity in excess of 300 metres
- Adaptive Frequency hopping to cope with interference from other wireless products
- A full industrial operating temperature range of -40°C to +85°C
- Automatic high speed performance using the Enhanced Data Rate of Bluetooth Version 2.0+EDR specification with data rate up to 3Mbps
- Supports extended SCO to provide the highest quality voice communications
- Optimised receive sensitivity to provide long range initial connections that largely eliminate connection hysteresis
- Low power
- Lead free
- 2 year warranty

#### SECURITY

When designing applications, security is paramount. To simplify this, our professional USB adapter supports all the security features from the Bluetooth standard.

- Full support of Authentication and Encryption
- 128 bit authentication keys
- 128 bit encryption keys
- SAFER+ encryption algorithm

#### global solutions: local support™

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# BRBLU03-010AC High Speed Bluetooth® USB Adapter

FEATURE	IMPLEMENTATION
Bluetooth®	Class 1
Frequency	2.402 – 2.480GHz
Max Transmit Power	+6dBm
Min Transmit Power	-27dBm
Low Power Sniff	2.5mA typical
Receive Sensitivity	Better than -84 dB
Range	300 m (free space)
Current Consumption	Idle mode = 13mA Connected as master = 20mA
Physical Size	64.0 x 20.0 x 10.6mm, 11g
Bluetooth Qualified	Bluetooth 2.0
Lead Free	RoHS compliant
Temperature Range	-40°C to +85°
Data Transfer Rate	2.1Mbps



## ENVIRONMENTAL TESTS

IEC 60068-2-1:1990	IEC 60068-2-56:1988	SAE 1455:REVAug94	Paragraph 4.10.4 (shock)
IEC 60068-2-2:1974	IEC 60068-2-30:1980	Paragraph 4.9.4.2 (random)	
IEC 60068-2-14:1984	IEC 60068-2-29:1987	SAE 1455:REVAug94	

The details contained within the document are subject to change. Download the product specification from [www.lairdtech.com/wireless](http://www.lairdtech.com/wireless) for the most current specification.



## LWS-SPEC-BRBLU03 0109

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