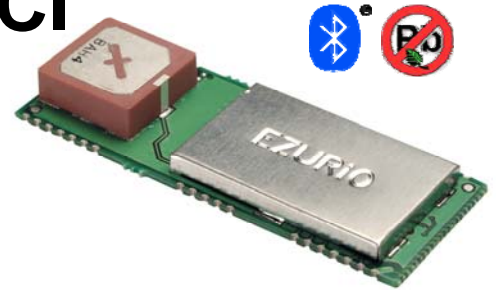


Embedded *Bluetooth*[®] HCI Module



Part No: TRBLU24 – 00100

The Ezurio Embedded *Bluetooth* Module is specifically designed for applications that demand a robust and reliable *Bluetooth* connection. This product has been designed with solder connections that allow the module to be mounted directly into your own designs and potted or enclosed within metal housing, while exposing a high performance multilayer ceramic antenna.

Key Features

- Integrated antenna with up to 300 metre range
- Class 1 with +6dBm transmit power (maximum)
- Current consumption less than 30 mA
- Version 2.0+ EDR *Bluetooth*
- Data transfer rate up to 3Mbps
- -40°C to +85°C operating range
- Optimised for Windows CE
- USB or optional UART (H4, H5, BCSP)
- Piconet and Scatternet supported
- Adaptive frequency hopping
- Support Wi-Fi coexistence
- *Bluetooth* approved
- Designed for rugged applications and potting
- Lead free – RoHS compliant
- 2 year warranty

The HCI interface has been optimised to work with the Microsoft Windows CE embedded protocol stack and also supports other HCI compliant *Bluetooth* stacks including Microsoft Windows XP. The interface allows the module to access to the full range of features available from the *Bluetooth* version 2.0 specification from the latest CSR BlueCore BC4 chipset.

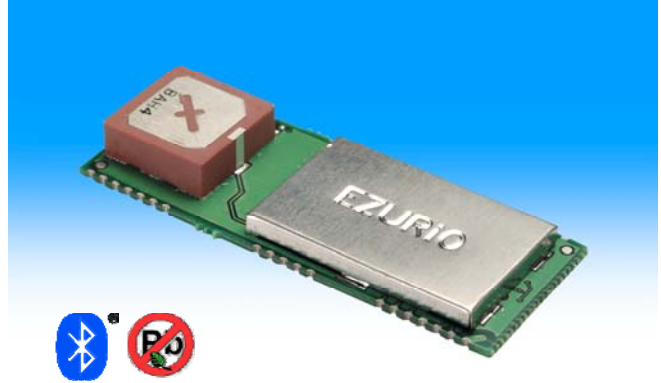
Key Benefits

- Fastest time to market
- Excellent range
- Rugged design
- Low power
- Low cost of ownership
- Flat mounting solder down board
- Pottable without detriment to performance

Embedded *Bluetooth* Module – HCI

Features

Features
Version 2.0+EDR <i>Bluetooth</i>
Adaptive Frequency Hopping
Supports Wi-Fi co-existence
<i>Bluetooth</i> qualified
Optimised for Microsoft Windows CE
Integrated antenna with up to 300m range
Surface mounted design
Low current consumption
Data rates up to 3Mbps (raw data rate)
Industrial Temperature range
Piconet, Scatternet and audio supported
Field upgradeable
2 Year warranty



Key benefits

Fastest time to market	Embedded system design
Lowest cost of ownership	Optimised for Microsoft Windows CE

Supports encrypted data	Low power consumption
Industrial design for surface mount applications	Extensive technical support

Overview of the technical specification

Feature	Implementation
<i>Bluetooth</i>	Class 1
Frequency	2.400 – 2.485 GHz
Max Transmit Power	+ 6dBm
Low Power	Hold, Sniff, Park
Receive Sensitivity	Better than -84dB
Range	300m (free space)
Interface	HCI over USB or optional UART
Lead Free	RoHS compliant

Feature	Implementation
Physical Size	25 X 35 X 10mm, 8g
<i>Bluetooth</i> Qualified	<i>Bluetooth</i> 2.0+EDR
Current Consumption	Less than 36mA
Temperature Range	-40°C to +85°
Audio	SCO and eSCO supported
Piconet and Scatternet	Supported
Field Upgrades	Supported

The details contained within the document are subject to change; please download the product specification available from www.ezurio.com for the most up to date specification