blu2i

EZURiO

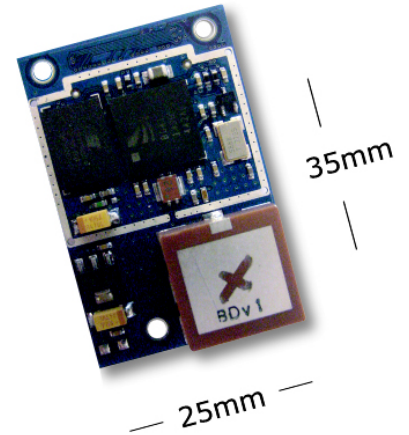Ezurio is a management buy-out of ⊕TDK systems   Europe Ltd

Bluetooth Serial Module

Features

- version 2 Bluetooth
- adaptive frequency hopping
- Wi-Fi compatible
- fully approved standalone product – no approvals cost
- integral Bluetooth software
- integrated antenna with up to 300m range
- simple AT style command set control
- 2 8bit ADCs, 8 GPIOs
- -40°C to +85°C operating range
- Profile support including: SPP, DUN, headset, audio gateway, handsfree and FTP

Key benefits

- fastest time to market
- no host stack required
- encrypted data
- low power
- ideal for embedded systems
- lowest cost of ownership

Target application areas

- automotive
- healthcare
- EPOS

Overview

The Intelligent Bluetooth 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, pre-qualified Bluetooth stack and profiles, along with a simple AT command based programming interface.

Feature	Implementation
Bluetooth	Class 1
Frequency	2.400 – 2.485 GHz
Max Transmit Power	+6dBm
Min Transmit Power	-30dBm
Low power sniff	2.5mA typ
Receive Sensitivity	Better than -90dB
Range	300M
Data Transfer rate	Up to 250Kbps
Serial Interface	RS-232 bi-directional for Commands and data
Serial parameters	Default 9600,n,8,1 Configurable from 9600bps DTR, DSR, DCD, RI, RTS, CTS

Feature	Implementation
Physical size	25 x 35 x 10 mm, 8g
Fully Bluetooth	Bluetooth 2.0
Current consumption	Less than 36mA
Temperature Range	-40°C to +85 °C
Interface Levels	3.3V
Audio	supported
Multipoint	supported
Field upgradeable	Over UART
Protocols	UART AT command set
GPIO	8 x digital
ADC	2 8bit
Lead free	

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