

DATA SHEET

BlueWAVE Developer Kit

Bluetooth™ Serial Development Board

Part Number: BW_ST_C1_XA_DK



Overview

The BlueWAVE™ Development Board is a full resource that allows an engineer to evaluate the benefits and features of the BlueWAVE Bluetooth™ technology, quickly, simply and safe in the knowledge that it is backed by world-class support from Wireless Futures.

The aim of the BlueWAVE Development Board is to provide the engineer with a one-stop development platform required to deploy Bluetooth™ UART or RS232 technology.

Contents of Development Board

- Motherboard PCB for BlueWAVE OEM Module.
- Configuration Utility for Windows 2000/XP
- Firmware Upgrade Utility (CSR BlueCore02 interface)
- RS232 Serial Cable
- Software Developers Library and source code.
- International Mains AC Power Supply
- Technical User Manual

Benefits

- Fast track Bluetooth™ development
- Complete technical support from wireless technology experts.
- Flexible and customisable design easy to integrate to existing hardware/software.
- Zero Risk and Zero Technical Uncertainty.

Features

- Fully compatible with entire range of BlueWAVE OEM modules.
- Fully Compatible with Cambridge Silicon Radio Development Tools (Casira)
- Provides BlueWAVE Firmware upgrade ability.
- Full Configuration Utility
- Includes software development libraries

Specification

Supply Voltage (VCC)	3.5V – 20V DC International AC Adaptor supplied
Interfaces	EIA 232 (5V) 9 Way D Type male. EIA 232 (5V) 9 Way D Type female. 25 way D Type programming interface BlueWAVE Interface
Operating Temperature	-20 ~ 75 degrees
Storage Temperature	-40 ~ 85 degrees
Humidity	95% non-condensing
Baud Rate	1200 - 115200baud
Configurable Digital I/O	3.3V
Flow Control	RTS/CTS or NONE
Programming Interface	SPI Interface. Configured at appropriate levels for connection to a PC parallel port designed to utilise the CSR BlueSuite programming and configuration tools.
Dimensions	80mm x 120mm Height : 18mm

Programming Tool Chain

Cambridge Silicon Radio programming and configuration tools are included with the development board. This is to aid firmware upgrades and also to configure the BlueWAVE units.

BlueFlash	Software tool to enable the user to download new firmware object code onto the BlueWAVE module. The software also enables the user to dump the existing module contents to a file.
PSTool	Software tool to enable the user to configure many aspects of the BlueWAVE module including the default serial port characteristics, Bluetooth address, power table and many other features.

Interface Specification

9 Way D Female (DCE)

Pin	Name
1	NC
2	RS232 TXD
3	RS232 RXD
4	NC
5	GND/0V
6	NC
7	RS232 CTS
8	RS232 RTS
9	NC

9 Way D Male (DTE)

Pin	Name
1	NC
2	RS232 RXD
3	RS232 TXD
4	NC
5	GND/0V
6	NC
7	RS232 RTS
8	RS232 CTS
9	NC

25 Way D Male – Programming Interface

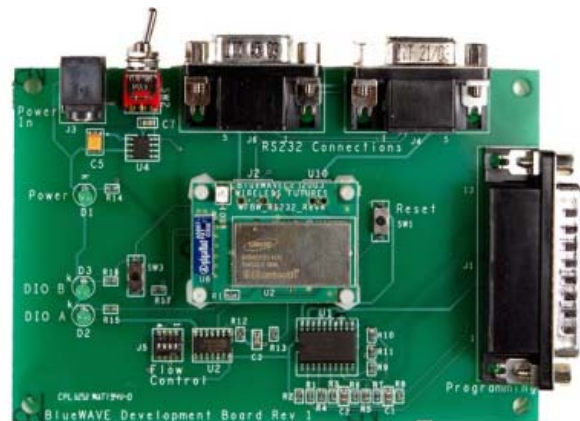
Pin	Name
2	SPI_CSB
8	SPI_MOSI
9	SPI_CLK
10	SPI_MISO
16	RESET
18	GND/0V
19	GND/0V

Customer Promise

We are so confident that you will be delighted with our Development Boards and technical support that we will offer a **money back guarantee** should you not be happy with the product.

On-Line Ordering

The Development Kits are usually in stock and ship internationally next day. To order on-line please visit our website <http://www.wirelessfutures.co.uk>. We can accept payment in GBP (£) EURO (€) and US Dollars (\$).



The BlueWAVE Development Kit with SMD Serial Terminal (not included) attached

Technical Support

As Wireless Futures is a leading wireless development consultancy, we are able to offer a complimentary technical support package to our customers integrating the BlueWAVE products. This technical support will include telephone and email advice.

Customisation

If the BlueWAVE product does not fit your requirements exactly, we are able to customise the solution to meet your needs. For more information on our customisation service, please contact us.



About Wireless Futures

Wireless Futures design, manufacture and integrate innovative, practical and easy to implement wireless solutions. These solutions provide our customers a fast track to either incorporate wireless technology within their current products, or to simply design a new product range with built-in wireless technology.

By leveraging our expertise in wireless technologies we are able to offer products and services to our customers to enable cost effective, rapid time to market wireless solutions.



Wireless Futures have over 350 OEM customers across the world from the UK, Europe, North America and the Far East.

The BlueWAVE solution has been successfully deployed across the globe in the following vertical markets:-

- Medical
- Telco
- Defence
- Automotive
- Utility
- Marine
- Many more...

More Information...

For more information on our products and Development Boards, please use the following contacts

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