

IR/IrDA Transceiver Receiver Board Document

Contents of package

1. IR/IrDA Board EB-012-00-1
2. Document EB01240 "IR/IrDA transceiver receiver board" document
3. Document "Warranty"

Summary – IrDA Board

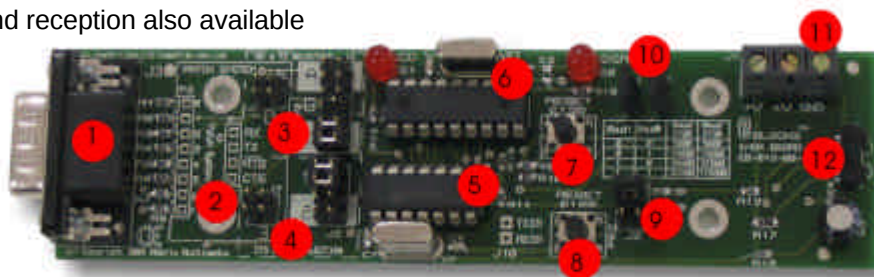
Description

This E-block allows investigation of IrDA standard wireless connectivity. This board can be used as a Secondary device for "point to point" applications, such as communication to a PalmOS® IrDA compatible device. It can also be used as a stand alone IrDA Encoder / Decoder. The board offers a range of user selectable baud rates. There is also a facility to directly access the infrared transceiver so that other infrared protocols can be investigated (e.g. television remote controls).

Features

- Operates as a "Point to Point" Secondary IrDA application
- Or a stand alone IrDA Encoder / Decoder
- Direct infrared transmission and reception also available
- User selectable Baud rate
- Flowcode macros available

IrDA Board Layout



Important: Please note that the mode selection jumpers are orientated in the correct way – i.e. with the metal connect strips HORIZONTAL as shown in the picture above.

1. 9-way downstream D-type connector
2. Patch system
3. RX & TX selection jumper pins
4. CTS & RTS selection jumper pins
5. MCP2120
6. MCP2150
7. Reset for MCP2150
8. Reset for MCP2120
9. MCP device enable jumper
10. Baud rate selection jumpers
11. Screw terminals
12. TFDU4100 serial infrared transceiver

General Guide for TX and RX settings

Jumper at A	Jumper at B	Jumper at C		Jumper at D
PIC16F88 PIC16F87	PIC16F627(A) PIC16F628(A) PIC16F648A	PIC16F7x PIC16F7x7 PIC16F87x PIC16F87xA	PIC16C6x PIC16CC7x	Patch System

General Guide for CTS and RTS settings

Jumper Settings	Description
1	Hardware Flow Control (RX = bit 4, TX = bit 0)
2	No flow control
3	Hardware flow control (Patch)

An example: Using the board with PIC16F877A in PORTC the jumper settings should be **C & 1**

For more information on see Section 4 – Circuit Description on the Datasheet for this product.

Where to find more information

On the ELSAM 1.4 CD, which is provided with all 'upstream' devices (i.e. Multiprogrammer), is the relevant information for the product. It is in the E-Blocks directory, which includes the following documents: -

- o Installation guide.doc
- o Getting started with E-Blocks.pdf
- o IrDA Board folder – which contains datasheet and test program

For full up-to-date datasheets, documentation, F.A.Q.s and software updates please visit

www.matrixmultimedia.com/eblocks

Using the following user name and password

User name: eblocks

Password: halifax

You will now have access to up-to-date information that you require.