

## BitBox Ltd

3a Vickers Business Centre, Priestley Road,  
Basingstoke, Hampshire, RG24 9RA

Tel: 01256 799070

Fax: 01256 843735

E-Mail: sales@bitbox.co.uk

Web Site: www.bitbox.co.uk



### 03BBL274 Serial level shifter

The BitBox Level shifter is a very simple device for translating RS232 levels to logic levels.

The device is to be used in a development environment where a serial connection to a PC is required from serial at logic levels. This is frequently required in embedded system development.

The level shifter derives its power from the target hardware (approx 10mA). The target supply must be 3V to 5V. The logic levels will correspond to the target power.

Two 9 pin connectors are supplied, DCE (female) and DTE (male). A 6-pin header is supplied for connection to the target hardware. The device can be plugged directly into the serial port of a PC.

#### 9 pin DCE (female) connections

Pin 2	Tx	Out from level shifter
Pin 3	Rx	In to level shifter
Pin 5	Signal ground	
Pin 7	RTS	In to level shifter
Pin 8	CTS	Out from level shifter

#### 9 pin DTE (male) connections

Pin 2	Rx	In to level shifter
Pin 3	Tx	Out from level shifter
Pin 5	Signal ground	
Pin 7	CTS	Out from level shifter
Pin 8	RTS	In to level shifter

#### 6-pin header

Pin 1	Supply ground
Pin 2	RTS (logic out from level shifter)
Pin 3	CTS (logic in to level shifter)
Pin 4	Tx (logic in to level shifter)
Pin 5	Rx (logic out from level shifter)
Pin 6	Target supply

