BL233 -- I2C to RS232 Adapter

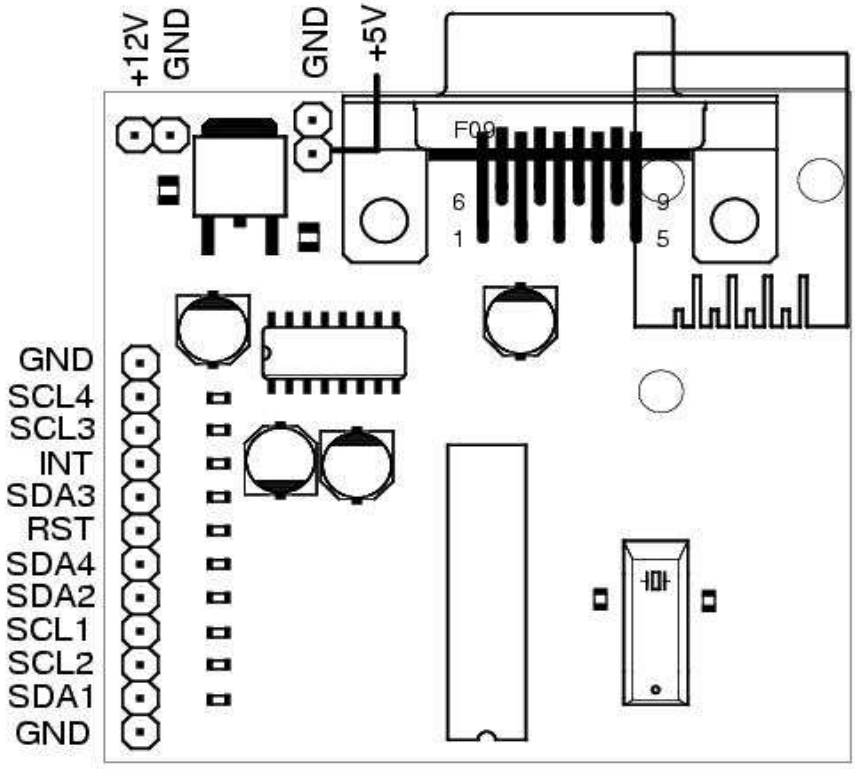

Figure 1

General Information
This board requires soldering. There are no connectors for the external interfaces or power other than the RS232 connector. You must solder your own wires and/or connectors for your end use. We will not provide any additional connectors or power supply.

No special software is required to operate this device. Simply use a terminal program to send and receive commands and data. All commands are plain ASCII as described in the BL233 documentation listed below. Any operating system capable of communicating via RS232 may be used.

Although no special software is required, you may use a program called Realterm to communicate with the BL233 IC. This program was written by Broadcast Equipment Ltd, the makers of the BL233 IC. Realterm is a free program and may be downloaded from http://realterm.sourceforge.net/. We offer no support for this program. Please refer to www.i2cchip.com or realterm.sourceforge.net/ for support offerings for this software.

Power
Power to the board comes in at the top left of the board (marked +12V/GND in *Figure 1*). This 12V is converted to 5V by the on-board 7805 regulator. If the regulator is removed,

the board may be powered with 5V directly using the pads found between the regulator and the DB9F connector (marked +5V/GND in *Figure 1*). You may use any voltage between 7 volts and 18 volts to power this board using the on board 5 volt regulator. Use caution when applying power. Do not reverse the power connections or damage may result.

Serial defaults:
Baud rate: 57,600 bps
Protocol: No parity, 8 bits, 1 stop bit, Hardware handshaking
These defaults can be changed and permanently set into EEPROM. Refer to the BL233 documentation for instructions.

You must use a DB9M to DB9F or DB9M to DB25F straight-through cable to attach this board to a PC.

Documentation
This board was built around the BL233 IC from Broadcast Equipment Ltd at www.i2cchip.com. Usage documentation in PDF format may be downloaded from i2cchip.com. The URL for the BL233 documentation is located at http://www.i2cchip.com/bl233_a.pdf.

If you have any questions concerning this board schematic, layout, pinouts or other information not found in the BL233 documentation, contact: Keith Youngblood at (360) 754-3779 or lifer@olywa.net. Please direct any questions relating to the functioning of the BL233 IC to the folks at www.i2cchip.com.