USB MICROSTAK

A USB version of Flash Lab, USB MicroStak is a PC104 style Pic micro controller development system consisting of a main micro controller board with USB to UART connectivity (USB1) and stackable prototyping boards. Included is the Mecanique Microcode Loader software and bootloader firmware for a range of 40 pin PICs. This means that no hardware programmer is needed to programme the selected PIC, only a USB connection to a PC and a standard *.hex file produced by virtually any compiler or assembler.

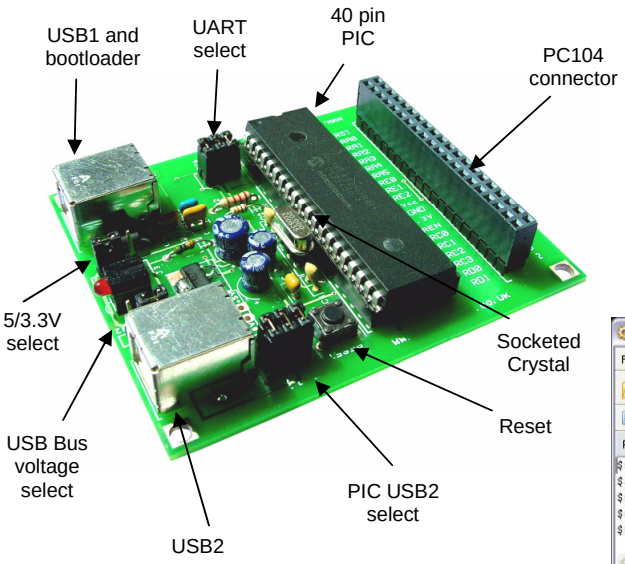
Features include:

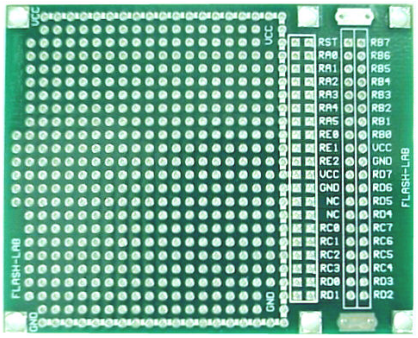
- USB1 connector for bootloader programming (no hardware programmer required)
- USB2 connector for using PIC on board USB port
- Powered by USB1 or USB2 bus or external 5V supply
- On board voltage selectable for 5V or 3.3V
- Main board can be 5V, proto board 3.3V for example
- 40 pin PC104 stackthrough gold plated connections
- Microcode Loader software/firmware and all documentation on CD

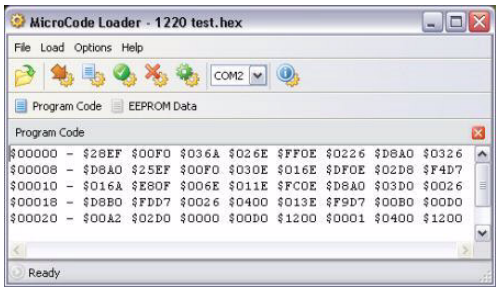
All I/O lines, PIC functions, 5V, 3.3V and reset line connect to the PC104 connector. Prototyping boards connect by stacking and picking up the PC104 connections. Spacers, nuts and screws are included to enable a compact and solid assembly to be constructed which can be used as a finished project if so required. Prototype circuits can be saved intact to be used again, thus saving repetitive wiring work for future projects, the same mainboard being used to develop many projects. Prototype circuits developed for use with a Flash Lab mainboard can also be used with MicroStak.

The second USB2 socket can utilise the PIC USB port once the PIC has been programmed. USB1 and USB2 connections can be used simultaneously. PC USB connectivity enables a wide range of functions to be realised.

The USB MicroStak mainboard is assembled utilising quality components requiring only a bootloader PIC, the end user's programme and optional custom circuitry constructed on a stackable proto board. Ideal for development, it can also be utilised as part of a finished system and is also an ideal low-cost replacement for PLC modules and data loggers.







DC supply voltage	USB1 or USB2 bus or external 5V DC
Compatible PIC micro controllers	40 pin devices with UART on RC6, RC7
Socketed crystal	20MHz supplied
Dimensions	65x80 mms (stacked board height 16mms)
RoHS	Yes

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