

## Macraigor Systems LLC



## UsbDemon™

### General Description

The usbDemon™ is a mid-cost interface used in the design, debug, test and programming of microprocessor and microcontroller based embedded systems. One side of the usbDemon™ interfaces to the USB 1.1 or USB 2.0 port of a host IBM compatible PC and the other side connects to an OCD (On-Chip Debug) port of the target system. This port may be JTAG, E-JTAG, OnCE, COP, BDM, or any of several other types of connections.

### Theory of Operation

The usbDemon™ operates as a converter of JTAG commands from the host to the proper OCD signals needed by the target. The host PC communicates with the usbDemon™ via the industry standard Universal Serial Bus protocols.

### Power

The usbDemon™ does not require an external power supply, it draws the requisite current from the USB connection. The buffers that interface to the OCD header are powered by the target itself.

### Physical

The usbDemon™ is in a tan plastic housing, approximately 4.0 x 2.5 x 0.75 inches. One side has a standard Universal Serial Bus type B connector. The other side has a 5.5 inch ribbon cable ending in the appropriate header for the OCD target. It weighs approximately eight ounces.