I/O Stackthrough Connectors for OEM Specials

January 31, 2001

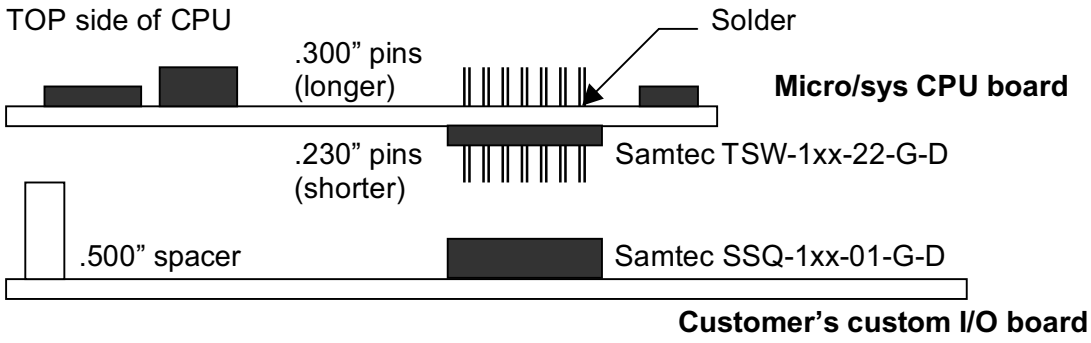
The PC/104 mechanical standard defines .600" spacers between boards. This is a non-standard size for spacer manufacturers. However, it is required due to the mechanicals of the connectors called out when you connect the PC/104 address, data, and control signals from one board to another.

If your design will ***not*** be using PC/104 signals, it is possible to move to a standard .500" spacer. Micro/sys offers this as a special when an OEM would like to plug a Micro/sys CPU card into their own custom I/O carrier board. We install stackthrough COM ports, digital I/O, analog I/O, etc., which are routed down to the custom I/O board. The address, data, and control signals on the PC/104 connector are ***not*** used on the I/O board.

For **.500" spacers** between our CPU board and the custom I/O board, the following mechanicals show how the boards mount and connect.

On the Micro/sys CPU board, we use Samtec TSW-1xx-22-G-D parts. They have .230" long pins on one side of the plastic, and .300" pins out the other side. We mount the plastic on the bottom side of the board, with the longer .300" pins going through the PCB. The pins are soldered on the top side of the board. Ribbon cables can still be attached to the top of the board, if desired.

The custom I/O board uses Samtec SSQ-1xx-01-G-D female connectors on the board. Micro/sys can provide accurate X-Y locations of CPU board connectors so the female connectors can be placed correctly. This information is delivered in .DXF design files.



Please contact Micro/sys Technical Sales at (818) 244-4600 if you would like to discuss a specific instance of this Special Configuration.