
ST-Microelectronics μ PSD3200 EMULATION

- XTAL – determines if the crystal or clock is taken from the target system or the on pod crystal. The jumpers should be in the top two positions for crystal to be supplied from the pod or the INT position. If the jumpers are in lower positions, EXT position, then the crystal/clock is supplied from the target system.

If you use an external clock, note that XTAL1 is an input and XTAL2 is left open.

All jumpers for PWR should be in the 5v or 3v position depending on the type of PSD device that you have installed and XTAL should be in the INT, “internal” position when no target is connected to the pod board.

RST connects the target RESET pin to the emulator. If the target system has a watchdog, it will probably interfere with the emulation and RST should then be removed.

The USB jumper must be installed in you are going to run the pod in **stand-alone** mode without a target otherwise the USB controller will keep resetting the micro, making the emulator unusable. Remove this jumper if you are installed on a target system that is designed to use the USB interface, otherwise leave the jumper installed.

Some other headers are labeled P4 (Port 4), PB (Port B), and PA (Port A) are available for monitoring via oscilloscope or other devices.

JP4 – is for future design operations to enable JTAG programming from the Emulator. This jumper should remain out.

BSW – header is for monitoring the bank bits for the FS0 ... FS8 regions, or they can be connected to the PGR bits on the connector next to them if you wish to emulate the PSD portion of the memory using emulation RAM.

PGR – header for bits 0 through 3 of the PAGE register.

$\overline{\text{ANB}} / \text{B1}$ and are to select between the bank switch bit 1 or the TRACE non-latched output signal when condition that is setup occurs.

$\overline{\text{FLF}} / \text{B0}$ and are to select between the bank switch bit 1 or the TRACE latched output signal when condition that is setup occurs.

$\overline{\text{EM}}$ – this pin goes low when you start the emulator running code at full speed.

SY0 and SY1 – these pins are general purpose inputs to the emulator and trace logic, and can be used to trigger on or break emulation.

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Emulator board information and setup:

The emulation of the ST-Microelectronics μ PSD3200 uses the EMUL51-PC/EA256-BSW emulator board. The figure below shows the correct settings for the emulator board, using default I/O address of 110, to correctly work with the POD-ST3000.

The emulator board must have COM 1.51 and be using software with a build date of 10/18/02 or newer to work correctly.

