Xosera r1 - Additional Information

This notice includes information related to your Xosera FPGA video adapter product for rosco_m68k. Please read this sheet carefully and retain for your reference.

1. Jumper Settings

JP1 – Mainboard 1.2+ - Should be shorted unless you are running with a pre-1.2 rosco_m68k main board.
JP2 (Solder jumper) – Do not short (test purposes only)
JP3 – UPduino 5V – See below
JP4 – rosco 5V – See below
JP5 – GND 12M – Not needed in normal usage
JP6 – Xosera RESET – Short in normal usage

JP3 and JP4 should be open or shorted to reflect how the various parts of the system are powered, according to the table below:

Mainboard power	Adapter power	UPduino power	JP3	JP4
J5 or Bus board	Mainboard	Mainboard	Short	Short
J5 or Bus board	Mainboard	USB	Open	Short
J5 or Bus board	UPduino 5V	USB	Short	Open
UPduino 5V*	UPduino 5V	USB	Short	Short
J5 or Bus board**	**None**	USB	Open	Open

* Configuration is not recommended
** **Do not use, potential damage may occur**

2. UPduino Setup

OSC Jumper – In order to function with the Xosera FPGA bitstream for UPduino, you must short the “OSC” Jumper on the UPduino PCB. This can be done by shorting the jumper pads with solder.

RGB LED Jumper – You may *optionally* choose to cut the RGB LED jumper. Care should be taken if doing this as the jumper is quite close to critical tracks. We recommend you do not cut this jumper (and the card will operate fine with it left as delivered).

You will need to program the Xosera bitstream to the UPduino before it can be used with the adapter. To do this, you will require a USB connection and Yosys tools. See documentation here:
https://github.com/XarkLabs/Xosera

3. Compliance Notices

All information contained in the product documentation (herein and online) and any additional information and documentation (including this notice) is correct as far as possible at the time of writing. Errors & omissions exempt.

To achieve compliance with local regulations regarding electro-magnetic interference (both transmission and receipt) the product may need to be operated in a suitable grounded enclosure with appropriate application-specific shielding. The Really Old-School Company Limited neither specify not supply such enclosures and recommend that expert guidance be sought where an enclosure is to be used.

The Really Old-School Company Limited does not authorize the use of any of its products in safety critical or life support applications where the failure or malfunction of the product can reasonably be expected to cause failure of the safety critical or life support system or to significantly affect its safety or effectiveness. This includes, but is not limited to, human life support, nuclear safety and control, air-traffic control, and vehicular control.

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