



SRB-A79UJ

ARM7/9 JTAG-USB Interface

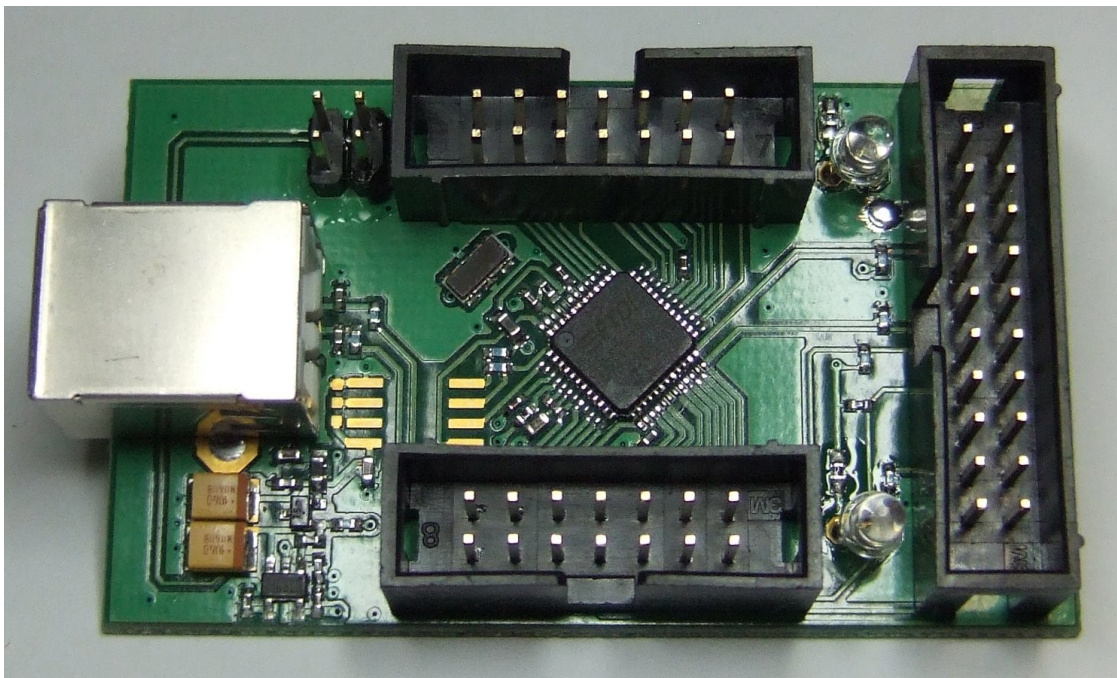
V1.0.0

Thank you for purchasing our ARM7 and 9 JTAG interface! This is the JTAG tool we use with the GNU-ARM and OpenOCD tool chain to develop the firmware for our ARM DSP based systems. Naturally we could have just purchased the few units we needed from one of the vendors but we wanted to have a low cost design environment, software and hardware, to enable and encourage our customers to modify their SRB-product.

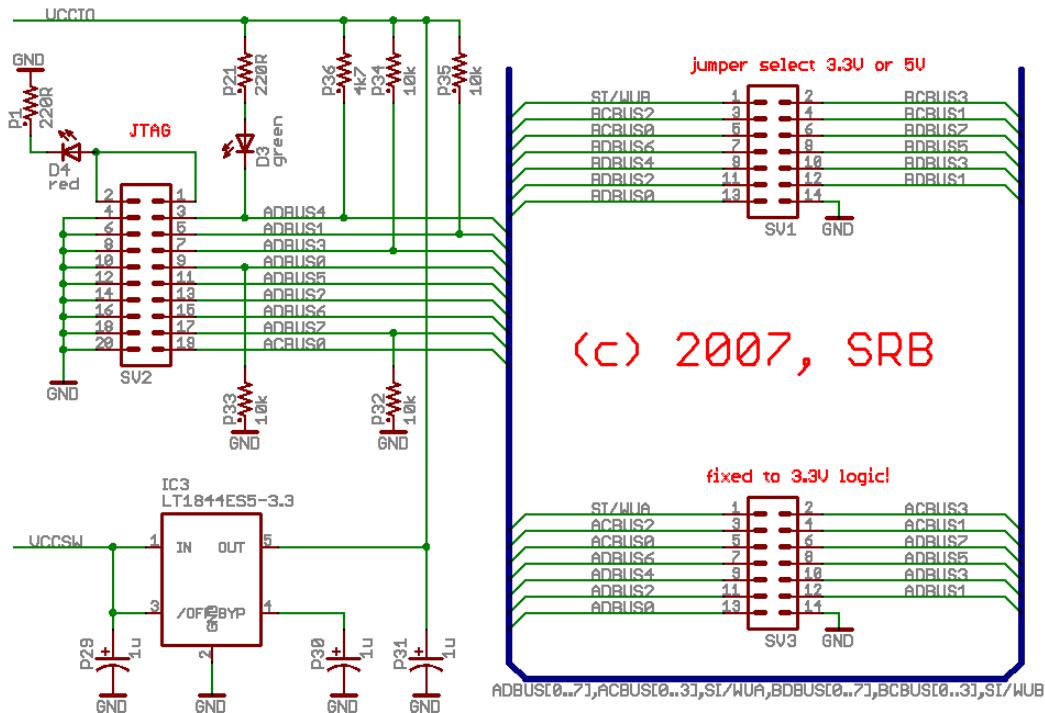
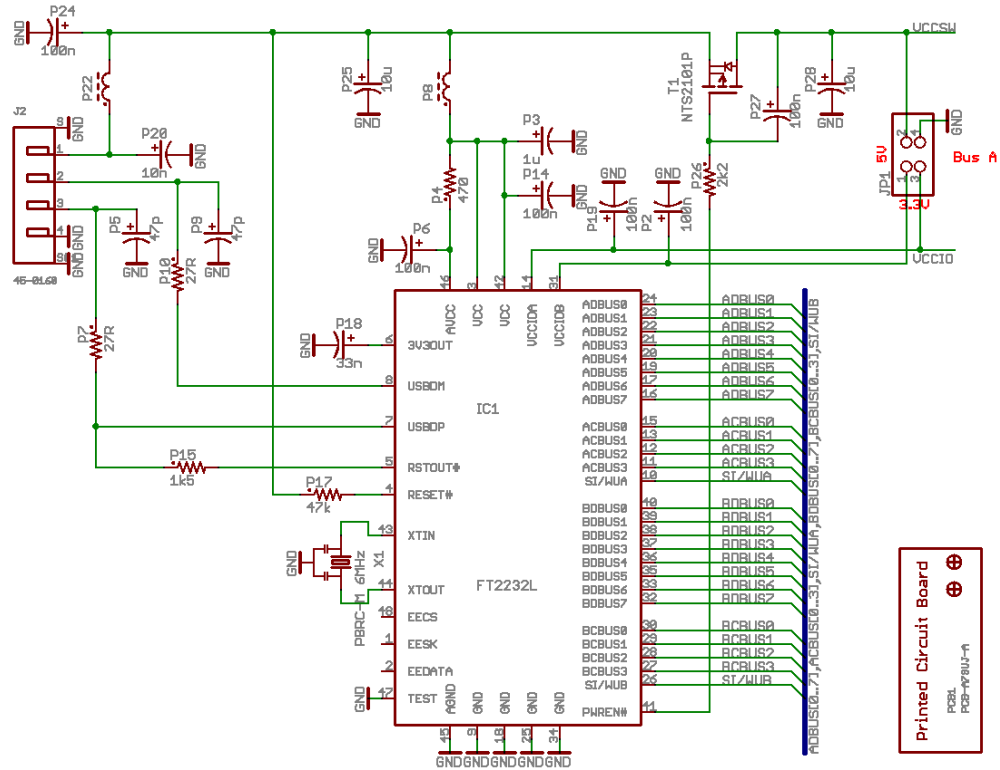
The SRB-A79UJ is fully supported by OpenOCD (<http://openocd.berlios.de/web/>) and provides all possible options to successfully debug the DSP code. It's limitation is that the target DSP has to have 3.3/3.0V I/O ports for the JTAG interface. If you intend to also write programs for 1.8V or 2.5V target systems (there are not too many) you unfortunately have to default to a more expensive IDE.

The SRB-A79UJ is powered by the USB port of your PC as it draws only pretty low current. Besides the JTAG interface it has a general I/O interface (including RS232) which can be jumper selected to operate at 3.3 or 5V. For the latest Linux® and Windows® drivers please visit the website of FTDI (<http://www.ftdichip.com/>). The part you are looking for is the FT2232D (the schematic shows the older FT2232L).

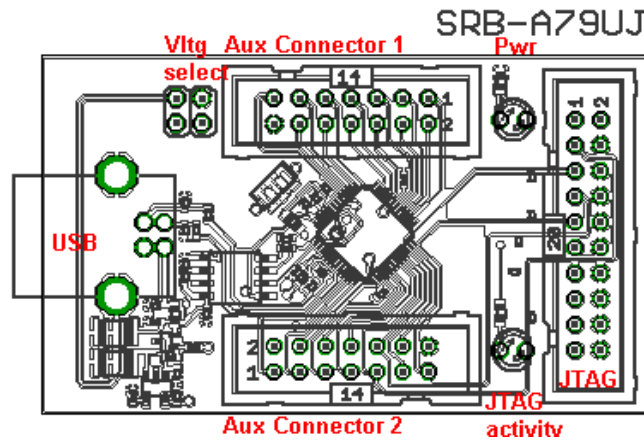
We can not provide support for your debugging or JTAG software. Please consult the manuals provided for it.



SRB-A79UJ, Arm7 & 9 JTAG Interface



Simply connect the SRB-A79UJ with the USB cable to your PC and the JTAG connector (standard pin-out) to your target.



The voltage of Bus A (at the Aux Connector 1, SV1) is selected with a jumper on the 4-pin header shown as Vltg select. A vertical connection on the left pins connects it to 5V and a horizontal jumper on the two lower pins makes the output 3.3V. Aux Connector 2 (SV2) is connected to 3.3V as well as the JTAG connector, it's the same output port as JTAG but with all pins connected.



The SRB-A79UJ comes with a PacTec CNS-0007 plastic enclosure which isn't cut as it would significantly increase the cost. With the provided stencil and a jig-saw it is easy to finish it. Tape the stencil to the cover, drill the 2 holes for the LED's and some holes where the connector cutouts will be. Then cut along the lines with a jig-saw. Place the PCB into the bottom shell, place the small piece of PCB material along the JTAG connector and snap on the cover. Done.

