

TE0722 Getting Started

 A circular badge with a green border. Inside, a black space helmet is shown with a skull and crossed wrench and screwdriver. The text "2015 HACKADAY PRIZE" is at the top and "SEMIFINALIST" is at the bottom.	2015 First year an Xilinx 7 series based product or Zynq based product passed into semifinals for the HackdaDay prize Trip To Space A small step for those on the way to All Programmable world?	 A large teal gear icon with a white circle in the center. open source hardware
--	--	--

Table of Contents

- [Overview](#)
- [Power supply](#)
- [DIP-Switches](#)
- [LEDs](#)
- [JTAG/UART](#)
 - [Use XMOD \(TE0790\) Programmer with special firmware](#)
 - [Use other JTAG Programmer](#)
- [Reference Designs](#)
- [Notes](#)

Overview



Power supply

TE0722 need external 3.3V power supply. It is possible but not recommended to supply TE0722 with TE0790 programmer, but only for small designs (max ~300mA over XMOD possible).

If TE0722 is powered via XMOD (max. ~ 300mA), use XMOD DIP-Switch:

POS	Value
1	ON
2	OFF
3	ON
4	ON

If TE0722 is powered with external 3.3V, use XMOD DIP-Switch:

POS	Value
1	ON
2	OFF
3	OFF
4	OFF

DIP-Switches

There are no DIPs on TE0722. In case of TE0790 (XMOD) usage, see power supply section.

LEDs

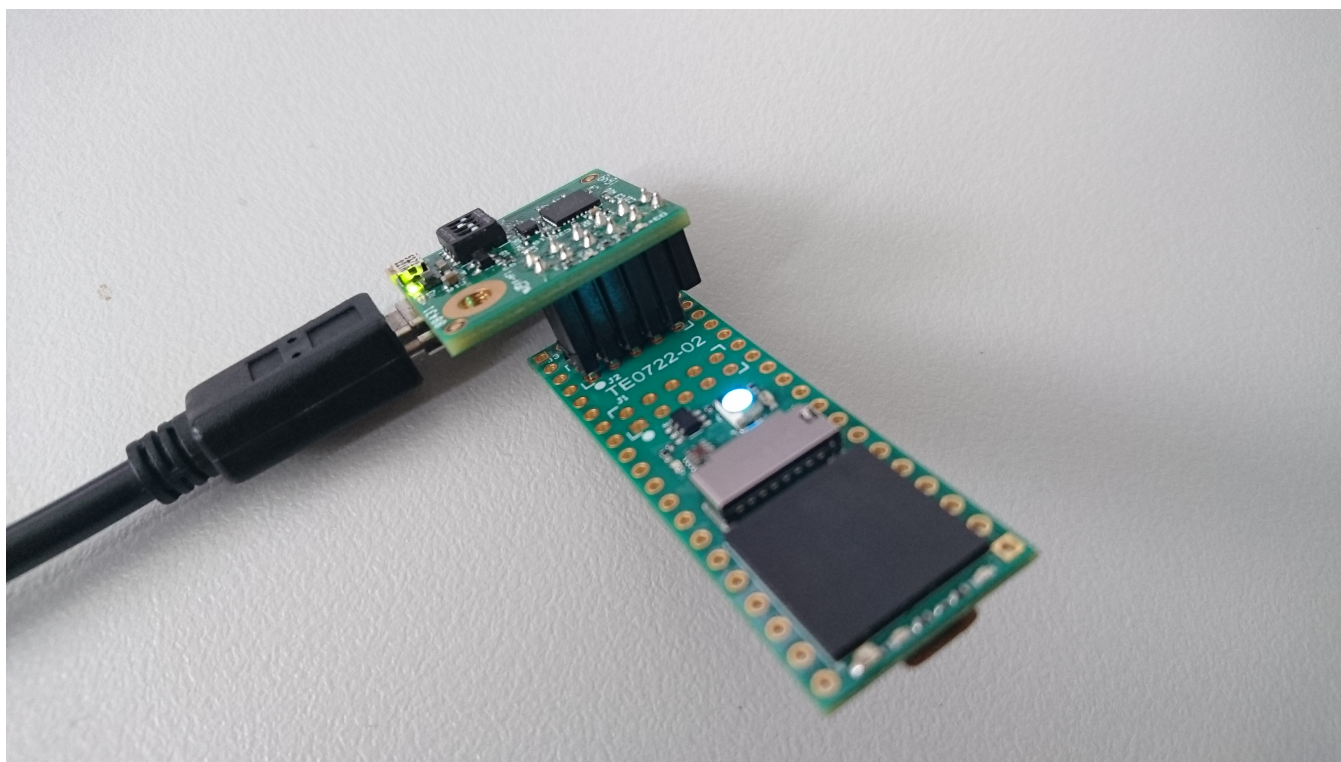
Working in process. Will be coming soon.

JTAG/UART

JTAG and UART is possible over J2 connector.



Use XMOD (TE0790) Programmer with special firmware

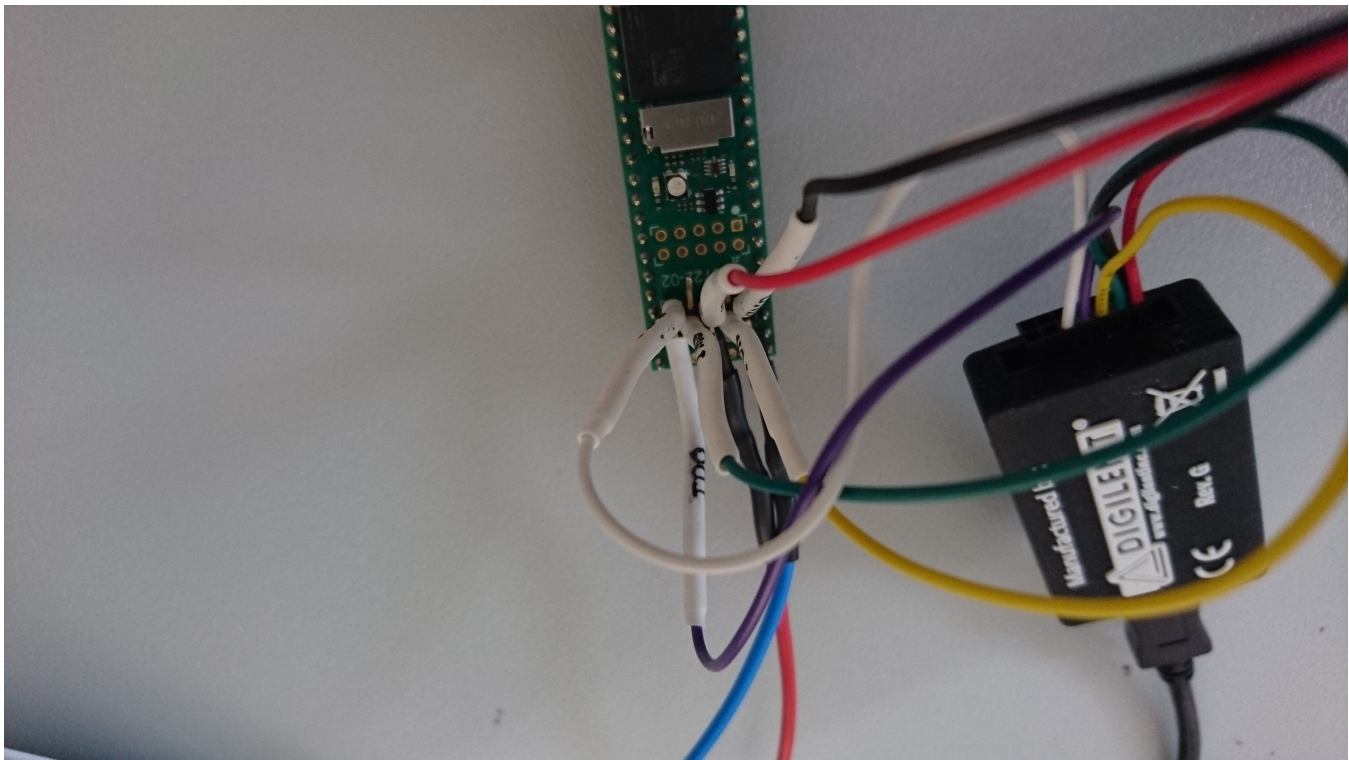


XMOD Programmer support JTAG and UART over same USB cable.



- XMOD DIP Switch settings: See power supply section
- XMOD Firmware: Special XMOD CPLD Firmware is needed, see: [TE0790 CPLD Firmware](#) Firmware (SC-PGM-TE0790-0203_XMOD_DIP40-01_20170426) is available on : [TE0790 Download Area](#)/[<Revision>/Firmware](#)

Use other JTAG Programmer



With other Programmer only JTAG is possible. UART must be connected separate.

TE0722-J2 Pin	TE0722-Name	Platform Cable - Name	Platform Cable - Color	external power supply
1	GND	--	--	GND
2	GND	GND	black	--
3	B34_L4_N(def. UART TX)	--	--	--
4	TCK	TCK	yellow	--
5	3.3V	VREF	red	--
6	3.3V	--	--	3.3V
7	B34_L10_P(def. UART RX)	--	--	--
8	TMS	TMS	green	--
9	TDI	TDI	white	--
10	TDO	TDO	violet	--

Reference Designs

- [TE0722 Reference Designs](#)

Notes

- [TE0722 Resources](#)

- [DDR less ZYNQ Design](#)
- [TE0790 Resources](#)