TE0723

Overview

The Trenz Electronic TE0723 is an Arduino compatible FPGA module integrating a Xilinx Zynq-7010, 512 MByte DDR3L, and 16 MByte SPI Flash Memory for configuration and operation.

All parts are at least commercial temperature range of 0°C to +70°C. The module operating temperature range depends on customer design and cooling solution. Please contact us for options.

> ⚠ Only PCB Revision 01 is Open Source.

	REV 1	REV 2
DDR	LPDDR2	DDR3L
DDR Size	64MB	512MB (128MB)
PMOD	no	yes

Resources

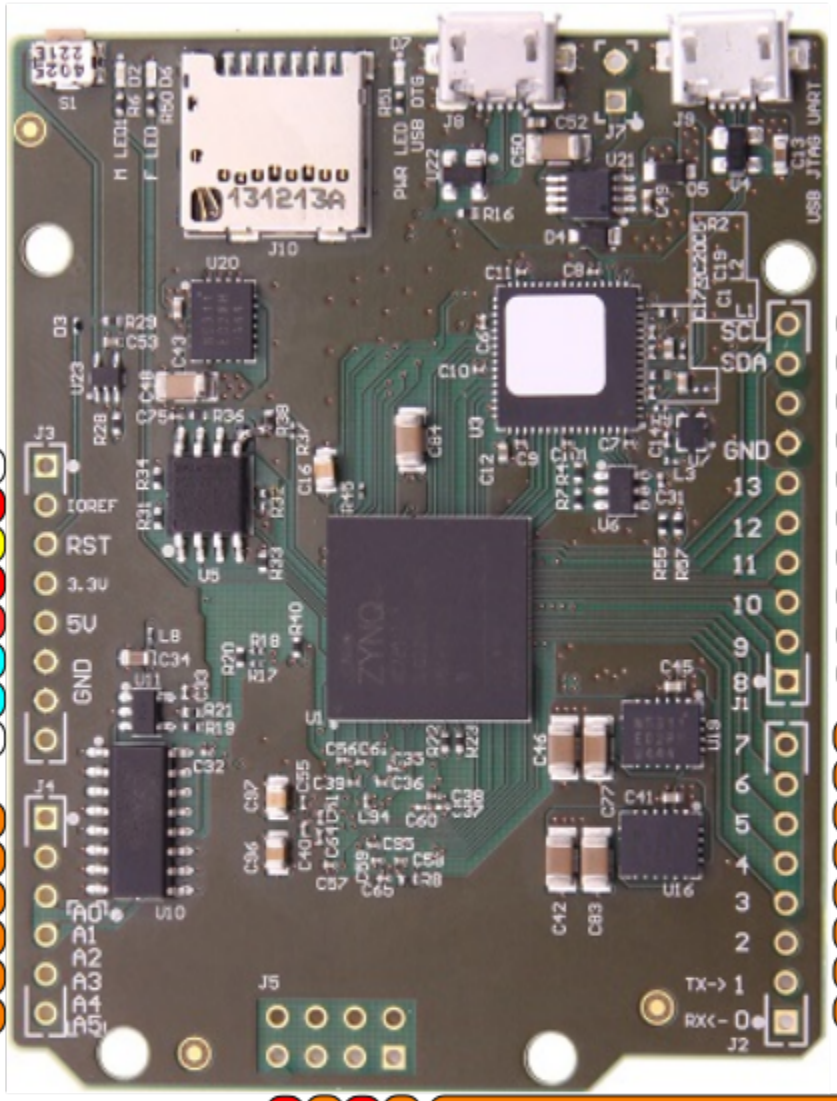
- TE0723 Resources

Key Features

- Xilinx XC7Z010-1CLG225C
- Form Factor: Arduino Shield
- Dual ARM Cortex-A9
- 512 MByte DDR3L
- 16 MByte SPI Flash memory
- 12 MHz MEMS Oscillator low power consumption
- Hi-Speed USB2.0 ULPI Transceiver
- 23 FPGA I/O's available on board-to-board connectors
- MicroSD Card socket
- Micro USB OTG
- RGB LED (PL I/O connected)
- "Done" LED (inverted polarity)
- On-board USB JTAG and UART
- CERN Open Hardware Licence 1.2

PCB Revision 1

FT2232H USB UART/FIFO
Channel A JTAG to Zynq
Channel B UART or FIFO



NC
IOREF
RST
3.3V
5V
GND
GND
NC

A0
A1
A2
A3
A4
A5

D15 P13
D14 R13
NC
GND
D13 R12
D12 P11
D11 R11
P10 P10
D9 R10
D8 P9

D7 N8
D6 R8
D5 P8
D4 R7
D3 N7
D2 N12
D1
D0

3.3V
RST
3.3V
TXD

ESP8266 Interface
ESP-01 Pinout


RX
GP
GP
GN