



System Specifications

- TMS320C6748 – Fixed/Floating Point Digital Signal Processor, operates up to 456 MHz
- On-board 14-Pin (2×7 Pin) JTAG emulation connector
- Boot mode selection switch
- 256 MB Flash memory
- 128 MB DDR2 RAM memory
- DB9 connector for UART-1 interface, 3-pin header for UART-2 interface
- USB Type B Connector for UART-2 interface for Debug Console
- LED indication for USB connection for Debug Console
- Reset Switch with LED indication
- USB Type A Connector for USB host interface, micro USB Type A Connector for USB OTG interface
- RJ45 connector for 10/100 Ethernet interface
- I2C-based Temperature sensor
- I2C-based RTC interface with battery backup
- SPI-based micro-SD card interface
- SATA connection
- Power-On LED indication, 4 User LEDs at GPIO pins as GPIO Test points
- 5 user push buttons for various applications
- Boot mode selection switch
- Video in port, VGA out connector, composite video out connection
- Graphics LCD interface connector
- Audio jack and speaker (Mic in) interface, audio codec for speaker out
- CMOS sensor connector to interface CMOS camera
- Temperature sensor with interrupt out facility
- Jumper selection to switch various video out options
- LED to indicate power surge, LED to indicate high voltage input, excessive voltage protection circuit with LED indication
- Various test points for signals
- Jumper selection to switch UART2 between USB connector and 3-pin connector

USB JTAG Emulator Features

- Provides JTAG access to Texas Instruments' JTAG-based devices
- Compatible with Code Composer Studio™ development environment
- Debug features: Emulation Connect/Disconnect, Read/Write memory, Read registers, Load program, Run, Halt, Step, Software and Hardware Breakpoint support, Real-Time

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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Mode

- Support for targets with 1.8V and 3.3V IO voltages
- Support for USB High Speed (480 Mbit/s)
- Supports cable-break detection, target power loss detection, multiple FTDI devices support, Adaptive clocking
- LED light to indicate active USB connection
- Compatible with CCS v5 or above
- Working of USB JTAG Emulator demonstrated with all features of the DSP Educational Practice Board

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