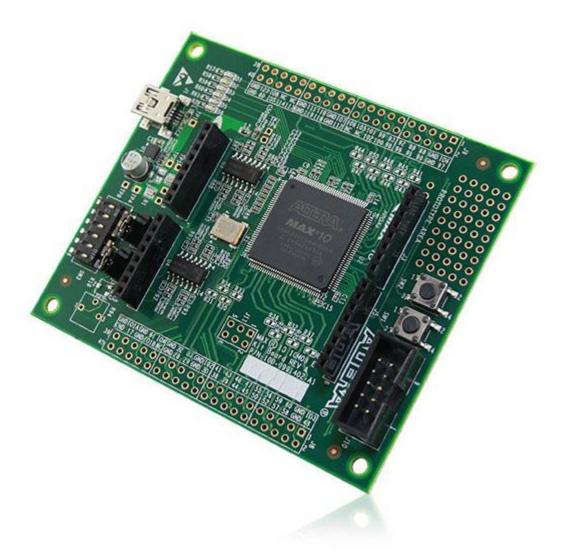
Altera MAX 10 FPGA Evaluation Kit

1. Overview



The 10M08 evaluation board will enable a cost effective entry point to MAX 10 FPGA design. The card comes complete with Arduino header socket, which will enable a wide variety of daughter cards to be connected.

- 10M08SAE144C8G
- Arduino shield expansion
- Access to 80 I/O through-holes
- Prototype area

2. Specification

- Company: Terasic
- Tel: +886-3-5750880
- Fax:+886-3-5726690
- Add: 9F., No.176, Sec.2, Gongdao 5th Rd, East Dist, Hsinchu City, 30070. Taiwa

Altera MAX 10 FPGA, 10M08SAE144C8G, (or ES variant)

- 8,000 logic elements (LE)
- 378 kilobits (Kb) M9K memory
- 32 172 (KB) user flash memory
- One analog-to-digital (ADC) converter, 1 million samples per second (MSPS), 12-bit

FPGA configuration circuitry

- JTAG header for external USB-BlasterTM, USB-Blaster II, or Ethernet Blaster download cable
- Flash storage for two configuration images (factory and user)
- Dual-image self-configuration via Programmer Object File (.pof)
- Temporary engineering debug of FPGA design via SRAM Object File (.sof)

On-Board clocking circuitry

• 50 MHz oscillator connected to FPGA global clock input

General user I/O

- 8 analog input I/O, 14 Arduino I/O, 40 general purpose I/O
- 5 red user-defined LEDs
- One green LED to show power from USB cable

Push button and DIP switches

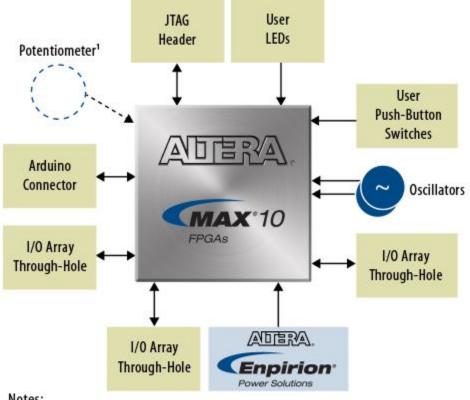
- One reconfiguration push button (SW2)
- One device-wide reset of all registers, push button (SW1)
- User DIP switch (SW3)

Power

- The board is powered by USB cable (from PC or wall jack)
- One green power-on LED (D6)
- Probe points for manual, multi-meter measurement of current to calculate
- Power consumption (TP2 TP5) or to verify voltages on the selected internal nodes (TP1, TP6 - TP9)

MAX 10 FPGA Evaluation Board Block Diagram

- Company: Terasic
- Tel: +886-3-5750880
- Fax:+886-3-5726690
- Add: 9F., No.176, Sec.2, Gongdao 5th Rd, East Dist, Hsinchu City, 30070. Taiwa



Notes:

¹ Not included, purchase and assembly required

- Company: Terasic
- Tel: +886-3-5750880
- Fax:+886-3-5726690
- Add: 9F., No.176, Sec.2, Gongdao 5th Rd, East Dist, Hsinchu City, 30070. Taiwa

- Company: Terasic
- Tel: +886-3-5750880
- Fax:+886-3-5726690
- Add: 9F., No.176, Sec.2, Gongdao 5th Rd, East Dist, Hsinchu City, 30070. Taiwa