Trion® T8 BGA81 Development Kit Overview

The Efinix® Trion® programmable platform, built on Efinix Quantum™ technology, delivers substantial Power-Performance-Area advantages over traditional FPGA products. Trion FPGAs feature programmable logic and a routing fabric built using Quantum technology. The fabric is wrapped with an I/O interface in a small footprint package that is required by many high-volume applications such as mobile and IoT. In addition to logic and routing, the fabric includes embedded memory blocks and multiplier blocks (or DSP blocks).
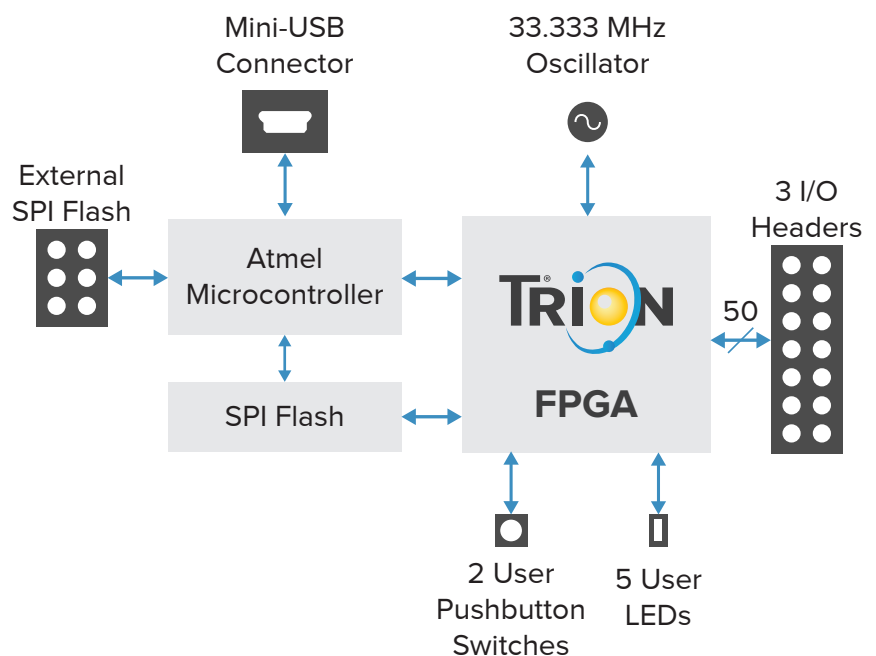
Efinix provides the Trion T8 BGA81 development kit, which is based on the T8 FPGA, so you can explore the features of this first member of the Trion platform. The Trion T8 BGA81 development kit includes a Trion T8 BGA81 development board, a USB cable, four standoffs, and four screws.

The Trion T8 BGA81 development board features:

• Compact design

• T8 FPGA

• 5 user LEDs

• 2 user pushbutton switches

• Type B mini-USB port

• Atmel microcontroller to facilitate T8 configuration

• 3 I/O headers to connect to external devices

• 33.333 MHz oscillator

QUANTUM ACCELERATED

Trion FPGAs feature programmable logic and routing fabric accelerated by Quantum technology

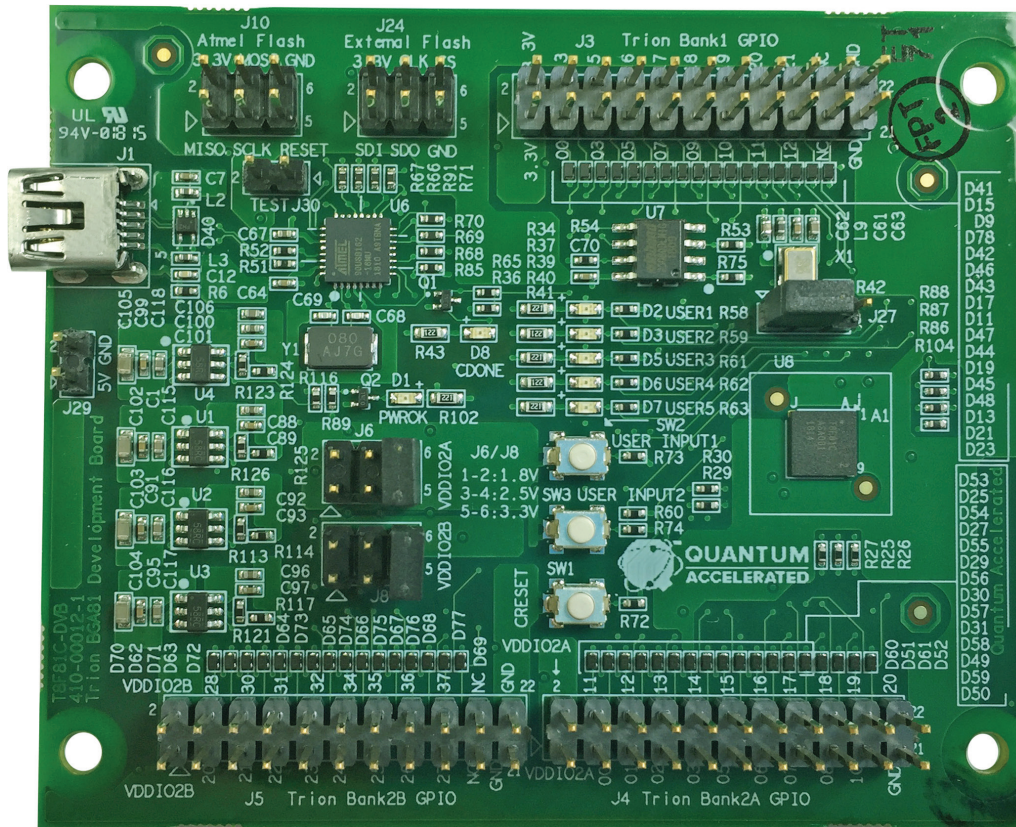**Figure 1   Trion T8 BGA Development Board Block Diagram**

Figure 2   Trion T8 BGA81 Development Board

Efinity Software Support

You can create designs for the Trion development kit using the Efinity Efinity® software. The Efinity software provides a complete tool flow from RTL design to bitstream generation, including synthesis, place-and-route, and timing analysis. The software has a graphical user interface (GUI) that provides a visual way to set up projects, run the tool flow, and view results. The software also has a command-line flow and Tcl command console. The software-generated bitstream file configures Trion devices. The software supports the Verilog HDL and VHDL languages.

Available Now

Our Trion T8 BGA81 Development Kit, as well as T4 and T8 sample boxes, are available for purchase in our online store. Visit us online at www.efinixinc.com/shop to register for store access.

EFINIX®

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