



### What's in the box?

- Trion T20 BGA256 development board preloaded with a demonstration design
- Micro-USB cable
- 4 standoffs and 4 screws

# Trion® T20 BGA256 Development Kit Overview

Efinix® Trion® FPGAs are built on our Quantum™ technology (which comprises programmable logic, a routing fabric, memory, and multipliers). These FPGAs deliver substantial Power-Performance-Area advantages compared to traditional FPGAs. In Trion FPGAs, the Quantum fabric is wrapped with an I/O interface that supports a variety of applications. Trion T20 FPGAs target general-purpose custom logic markets (mobile, IoT, general consumer, industrial, and medical) as well as fast-growing markets such as compute acceleration and deep learning in edge devices.

The Trion T20 BGA256 development kit, which is based on the T20 FPGA, lets you explore the features of this easy-to-use, I/O-rich FPGA. The Trion T20 BGA256 development kit includes a Trion T20 BGA256 development board, a USB cable, four standoffs, and four screws.

The Trion T20 BGA256 development board features:

- T20 FPGA
- 8 user LEDs
- 3 user pushbutton switches, 3 user DIP switches
- Micro-USB port
- SPI and JTAG headers to facilitate configuration
- 3 I/O headers to connect to external devices
- 50 and 74.25 MHz oscillators
- LVDS TX, RX, and clock headers
- 256 Mb SDR SDRAM



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

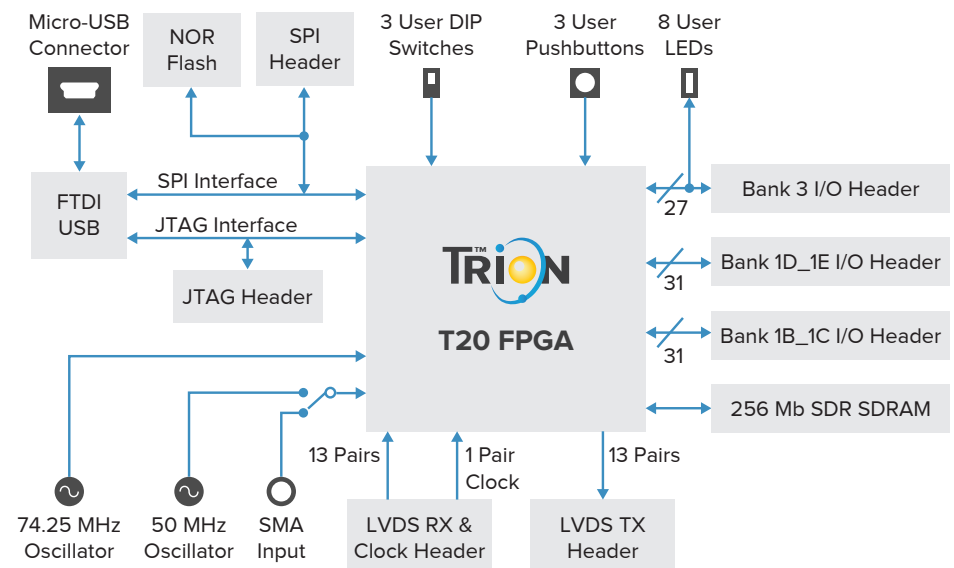


Figure 1 Trion T20 BGA256 Development Board Block Diagram

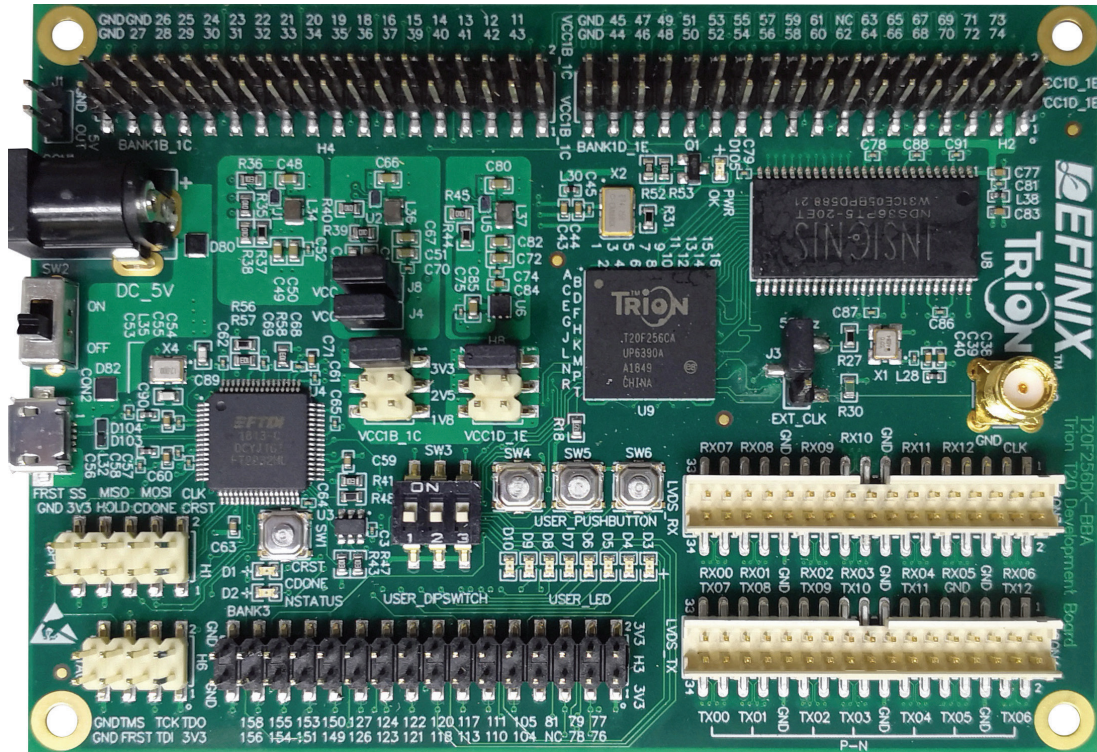


Figure 2 Trion T20 BGA256 Development Kit

## Efinity Software Support

You can create designs for the Trion development kit using the 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

The Trion T20 BGA256 Development Kit is available now in our online store. Visit us online to register for store access at [www.efinityinc.com/shop](http://www.efinityinc.com/shop).

