

What's in the box?

- Trion T120 BGA576 development board preloaded with a demonstration design
- MIPI and LVDS Expansion Daughter Card
- 2 Raspberry Pi Camera Connector Daughter Cards
- Raspberry Pi camera module
- Micro-USB cable
- 10 standoffs, 10 screws, 6 nuts
- Universal AC to DC power adapter (type A plug)

Trion® T120 BGA576 Development Kit Overview

The Trion T120 BGA576 development kit, which is based on the T120 FPGA, lets you explore the features of this easy-to-use FPGA. The kit includes a Trion T120 BGA576 development board, daughter cards, a Raspberry Pi v2 camera, and accessories. The Trion T120 BGA576 development board features:

- T120 FPGA in a BGA576 package with MIPI CSI-2 interface and DDR DRAM controller
- LPDDR3 256 Mbits x 32 bits memory, supporting up to 8 Gb
- HDMI 1080p transmitter for video output
- 2 Triple-speed Ethernet PHY connectors
- 8 user LEDs, 4 user pushbutton switches, 4 user DIP switches
- Micro-USB port
- SPI and JTAG headers to facilitate configuration
- 40-pin header to connect to Raspberry Pi computer
- 60-pin GPIO and configuration expansion header
- 10, 20, 25, 30, 40, 50, and 74.25 MHz oscillators

Figure 1 Trion T120 BGA576 Development Board Block Diagram

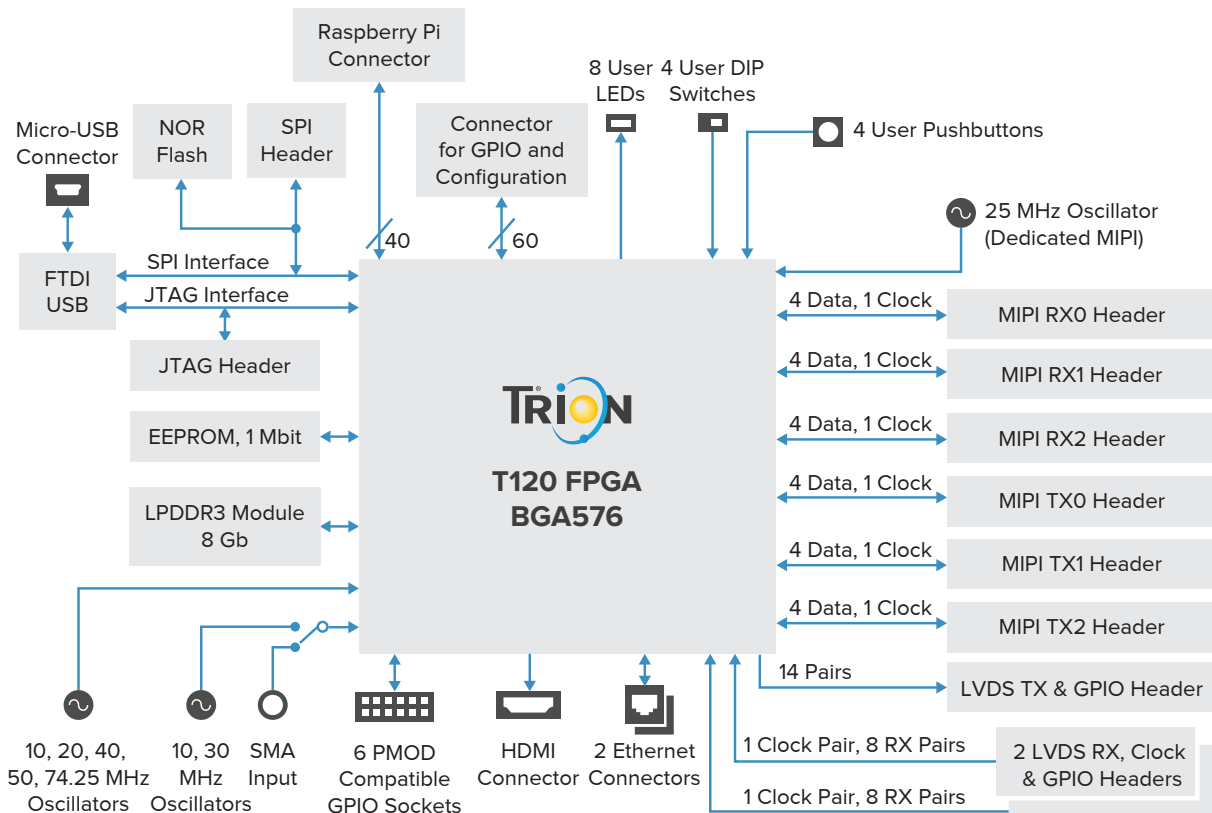
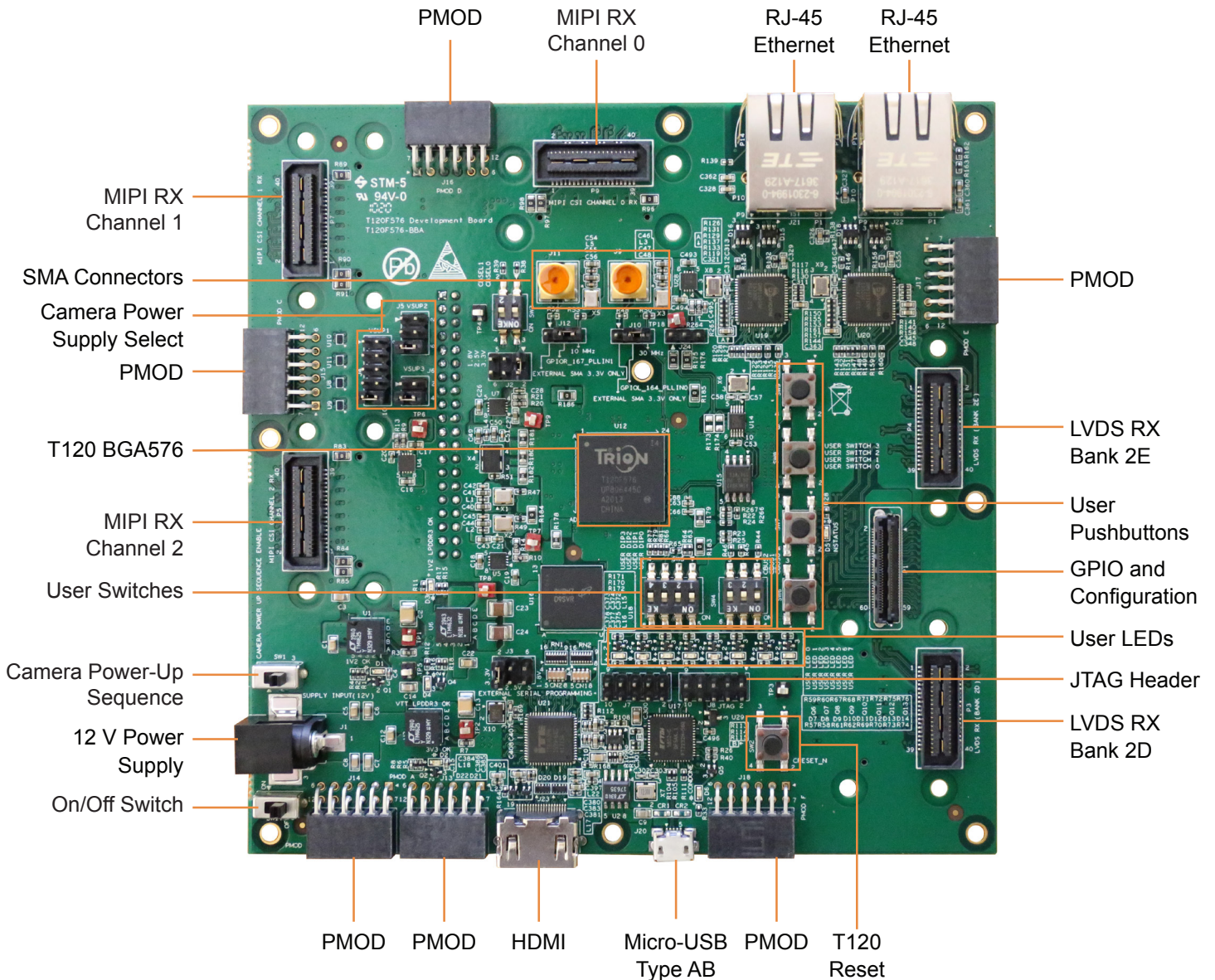


Figure 2 Trion T120 BGA576 Development Kit¹



Efinity Software Support

You can create designs for the Trion development kit using the Efinix 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.

Availability

The Trion T120 BGA576 Development Kit is available now. Visit us online at www.efinixinc.com for a listing of distributors and sales representatives.

¹ Image for illustration only. Refer to the Trion T120 BGA576 Development Kit User Guide for more information.