

### What's in the box?

- Trion T120 BGA324 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, and 6 nuts
- Universal AC to DC power adapter (type A plug)

# Trion® T120 BGA324 Development Kit Overview

The Trion T120 BGA324 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 BGA324 development board, daughter cards, a Raspberry Pi v2 camera, and accessories. The Trion T120 BGA324 development board features:

- T120 FPGA in a BGA324 package with MIPI CSI-2 interface and DDR DRAM controller
- LPDDR3 256 Mbits x 16 bits memory
- HDMI 1080p transmitter for video output
- Triple-speed Ethernet PHY
- 4 user LEDs, 2 user pushbutton switches, 2 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, 50, and 74.25 MHz oscillators

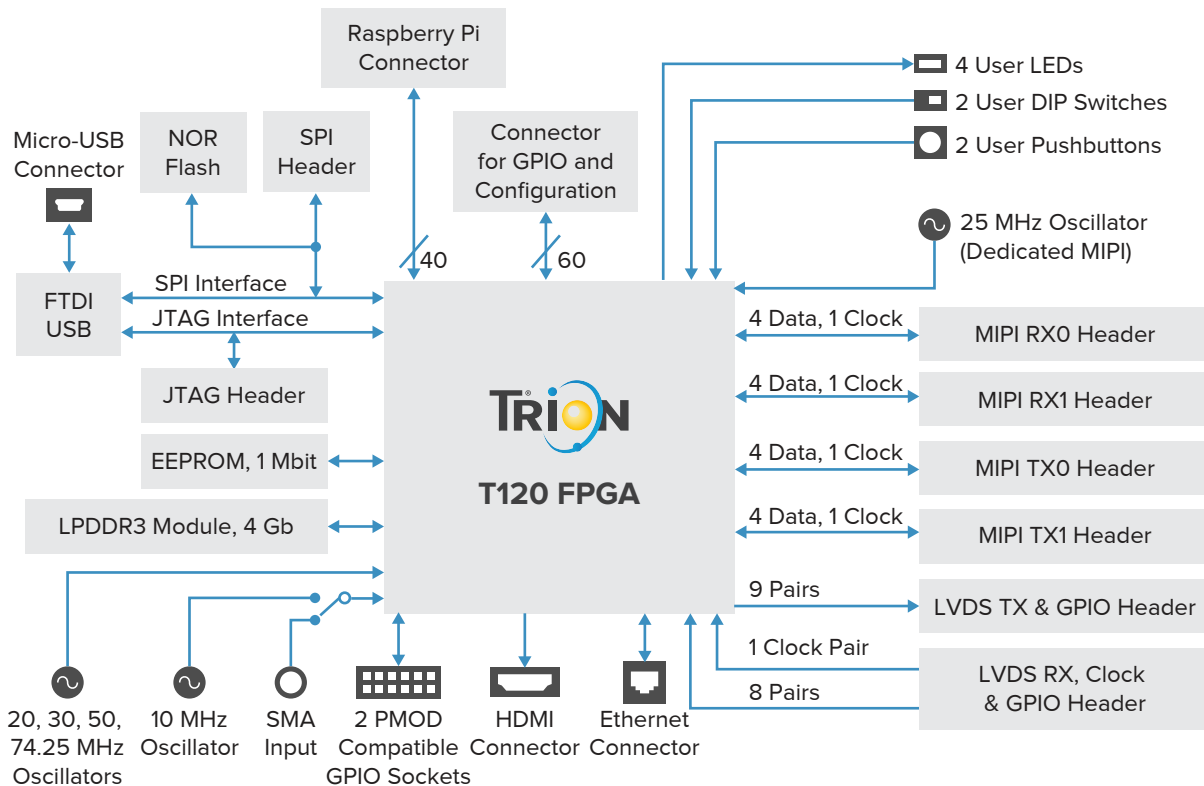


Figure 1 Trion T120 BGA324 Development Board Block Diagram

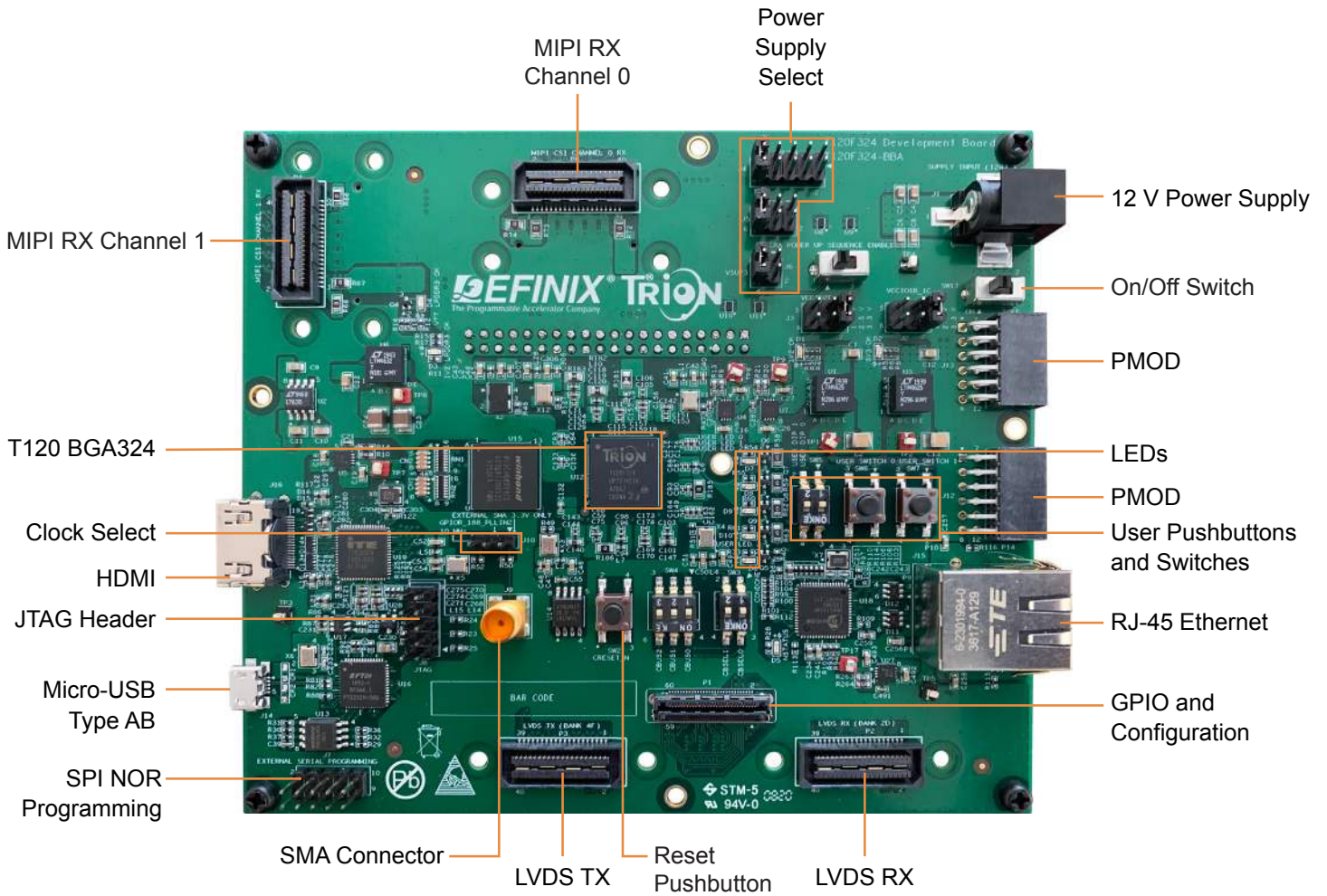


Figure 2 Trion T120 BGA324 Development Kit

## 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.

## Availability

The Trion T120 BGA324 Development Kit is available now. Visit us online at [www.efinityinc.com](http://www.efinityinc.com) for a listing of distributors and sales representatives.

