

Titanium Ti60 F225 Development Kit

Whether you are capturing video, aggregating sensor data, or designing for mobile or IoT applications, the Titanium Ti60 F225 Development Kit provides everything you need to get started quickly. Capture video with the included Raspberry Pi camera module, process it in the Ti60 FPGA, and then stream the result to the provided mini-DSI display. The camera and DSI converter daughter cards support up to 2 cameras or displays, respectively. The kit also includes an I/O expansion daughter card so you can connect to other components more easily.

The Ti60 F225 development board, included in the kit, has these components:

- Ti60 FPGA in a 225-ball FineLine BGA package
- 256 Mbit HyperRAM memory with x16 bits, 200 MHz maximum clock rate, and up to 400 Mbps double-data rate
- SPI NOR flash memory
- Three MIPI, LVDS, and GPIO high-speed connectors to attach the daughter cards included in the kit or your own custom daughter cards
- Micro-SD card slot
- USB v3.0 controller and type-C connector
- USB Type-C connector for programming the flash or Ti60 FPGA using the Efinity® software
- 2 RGB LEDs
- 4 User pushbutton switches
- 2 User DIP switches
- 25 MHz, 33.3333 MHz, and 74.25 MHz oscillators for PLL input
- 12.0 V power supply connector

Prototype Ti60 F100 Designs

The Ti60 FPGA is available in several space-saving packages such as the Ti60 F100 that has HyperRAM and SPI NOR flash memories inside the package. The Ti60 F225 Development Board has the same size HyperRAM memory that is included in the F100. So you can prototype your designs on the development board and then transfer them easily to the F100 for production.

Availability

The Titanium Ti60 F225 Development Kit is available for purchase. Visit us at www.efinixinc.com for a listing of distributors and sales representatives or buy online from DigiKey (www.digikey.com).

What's In the Box?

- Titanium Ti60 F225 development board preloaded with a demonstration design
- Mini-DSI Panel
- Raspberry Pi v2 camera module
- Mini-DSI Panel Connector Daughter Card
- Dual MIPI to DSI Converter Daughter Card
- Dual Raspberry Pi Camera Connector Daughter Card
- MIPI and LVDS Expansion Daughter Card
- 15-pin flat cable
- 30-pin flat cable
- USB type C cable
- Power adapter
- 10 standoffs, 10 screws, and 6 nuts
- 18 jumpers



Titanium Ti60 F225 Development Kit Overview

Figure 1 Titanium Ti60 F225 Development Kit Block Diagram

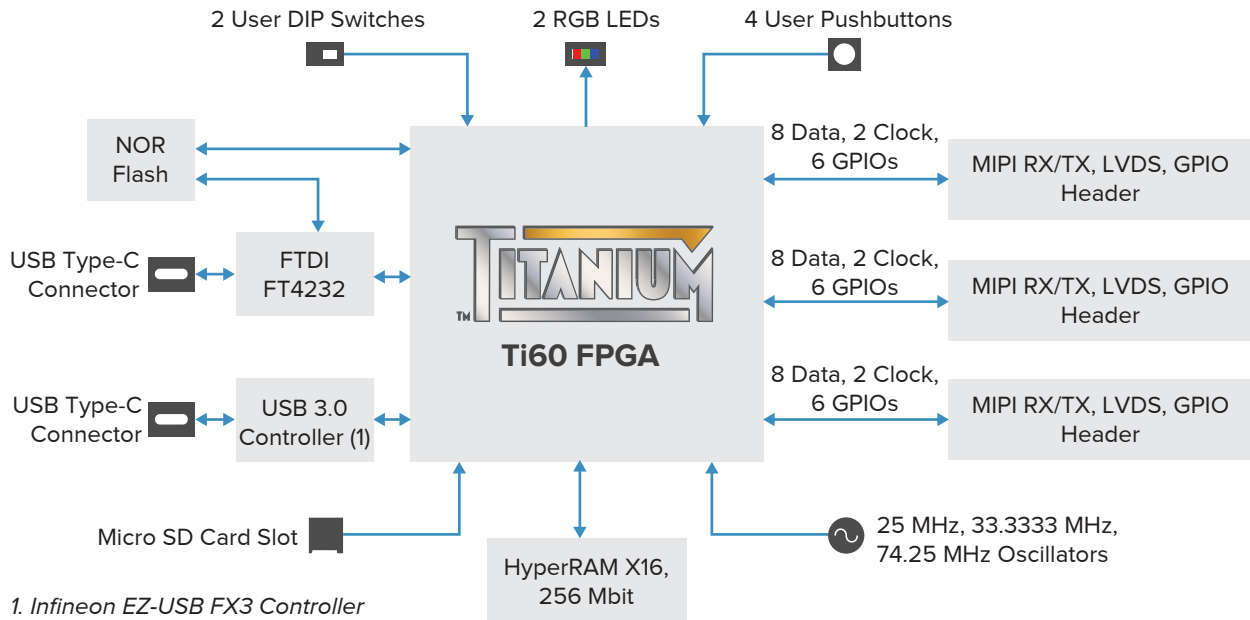


Figure 2 Titanium Ti60 F225 Development Board

