KNOTT SYSTEMS INC.

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NEW PRODUCT

CYCLONE II PCI EXPRESS DEVELOPMENT KIT

General Description

The Cyclone™ II EP2C35 PCI Express Development Board provides a hardware platform for developing and prototyping PCI Express, double data rate 2 (DDR2) SDRAM, and the 10/100/1000 Ethernet interface. Based on Cyclone™ II FPGAs and using Altera® MegaCore® functions or your own IP. Cyclone II EP2C35 PCI Express Development Board allows users to quickly solve design problems that typically require time-consuming and custom solutions.

Click here to enlarge

The board supports the EP2C35F672 Cyclone II device from Altera Corporation.

The board meets the following requirements:

- PCI Express™ Card Electromechanical Specification Revision 1.0a

- PCI Express™ Base Specification Revision 1.0a

Components

The board provides the following components:

- TI's XIO1100 PCI Express PHY.

- Altera's EP2C35F672C6 Cyclone II FPGA. Board is also compatible with Alter EP2C70F672C6 FPGA.

- Standard height, half length card PCI Express form factor

- Two 32-MByte DDR2 SDRAM devices for a total of 64 Mbytes of Memory

- Two Altera's EPCS64 serial FLASH Memory Devices for FPGA Configuration

- Clocking Options

  - Socketted 100-MHz High Speed Clock Oscillator
  - SMA connector clock input

- Switches and indicators

  - Two user-definable push-button switches

SIMPLIFY INTERCONNECTS

- Five-position, user-definable dual in-line package (DIP) switch bank
- Eight user-definable LEDs
- Power and configuration status LEDs
- Serial port TX/RX activity LEDs
- Ethernet LEDs (integrated in RJ45 connector)
- Configuration done and status LEDs
- Configuration source (local/user) toggle switch

- Flexible power options

  - PCIe connector
  - External power supply via laptop power supply cable

- Expansion & Debugging Interfaces

  - Joint Test Action Group (JTAG) interface connector
  - 32-bit Mictor probe connector
  - Altera Daughter Card (PROTO1)
  - 10/100/1000 Ethernet (RJ-45 connector)
  - Serial RS-232 (DB-9 connector)

Contacting Knott Systems Inc.

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LIST PRICE: $1,500

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