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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 Altera's 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



KNOTT SYSTEMS INC.

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- 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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