

XpressGen2V5-70

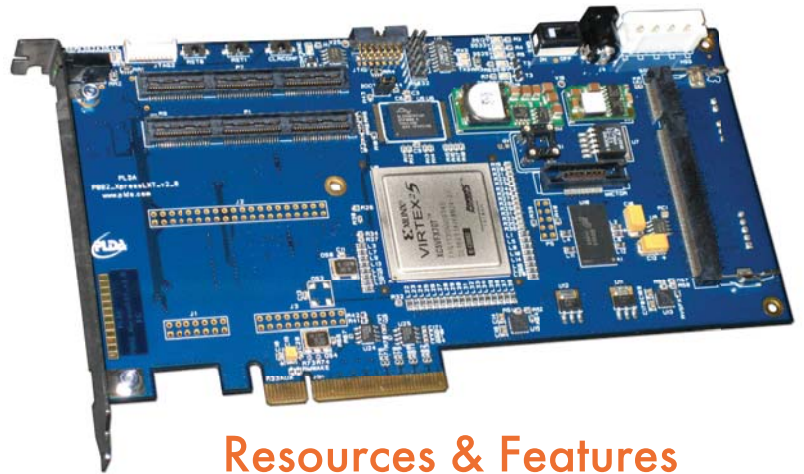
PCI Express® Based Prototyping Board



Xilinx Virtex-5 FX70T based PCI Express® 2.0 (Gen2) board

Interconnect Capabilities

- PCI Express® Endpoint/Switch/Root Port
 - 2.0 (Gen2) x1, x4 at 5.0 Gbit/sec
 - 1.1 (Gen1) x1, x4, x8
 - 1.1 (Gen1) x1, x4 cabling
- 10/100/1000 Ethernet
- 10G Ethernet x2 (daughtercard available)
- Daughtercard extension interface:
 - 13 LVDS Rx/Tx pairs
 - 13 LVDS Rx/Tx pairs or 52 LVCMOS 2.5V
 - 8 Gbit Rx/Tx (RocketIO) pairs
 - 100 SSTLII or LVCMOS 2.5V



Resources & Features

- Xilinx XC5VFX70T-2FFG113
- 128 Mbyte DDR2 onboard
- Up to 2GByte DDR2 on SODIMM connector
- 128 Mbit FlashProm
- FPGA programmable via a PCI Express® interface (software provided)
- LEDs, switches, RS232 for control/status/debug
- Can be used in stand-alone mode with external power supply

Benefits

- PCI-SIG compliant, listed on Integrators List
- Includes unlimited/full-featured version of PLDA IP:
 - XpressLite2 IP (PCIE 2.0 Gen2 Soft IP)
- Includes feature-rich PCIE Testbench
- Support for both native Verilog and VHDL design flows
- Provided with complete Software Design Kit with license-free/full-featured Windows and Linux drivers
- Wide range of daughtercards available. Custom daughtercards developed in short times
- Support provided by IP design team

Deliverables

- XpressGen2V5 Prototyping Board
- Software Design Kit including license-free Windows/Linux driver, API, and GUI examples
- XpressLite2 IP - (licensed for board use)
- Board Reference Manual
- Getting Started Guide
- Board Schematics

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