Spartan™-II 200 PCI Development Kit

Product Brief

The Spartan-II Development Kit is the perfect solution for FPGA and system designers who need a quick, flexible, feature-rich PCI prototype platform.

Features

- Easy-to-use modular development platform

- Based on the 200,000 gate Spartan-II FPGA

- 32-bit PCI interface for PC slot-based development

- Configuration support for JTAG, SelectMAP, slave serial, and ISP PROM

- P160 expansion connectors for 110 user I/O

- Low cost and flexible

Applications

- MicroBlaze™ soft processor development

- 32-bit PCI development

- General-purpose prototyping platform

- Digital signal processing

- Telecommunication and networking

- Digital video and wireless
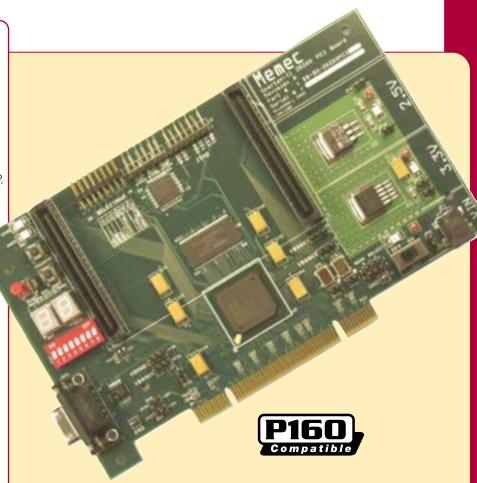

Product Description

The Spartan-II 200 PCI Development Kit provides a complete solution for developing designs and applications based on the Xilinx Spartan-II FPGA family. With support for a 32-bit PCI interface, the Spartan-II 200 PCI board is ideal for exploring PCI implementations. The kit bundles an expandable Spartan-II based system board with a power supply, user guide, and reference designs.

Also available from Memec Design, optional P160 expansion modules enable further application-specific prototyping and testing. Xilinx ISE software and a JTAG cable are available as kit options.

The Spartan-II 200 PCI system board utilizes the 200,000 gate Xilinx Spartan-II device (XC2S200-6FG456C) in the 456 fine-pitch ball grid array package. The high gate density and large number of user I/Os allow complete system solutions to be implemented in the low cost FPGA. The system board includes a 32-bit PCI interface, 2 M x 32 SDRAM, two clock

sources, an RS-232 port, LED displays, switches, and additional user support circuits. The board supports the Memec Design P160 expansion module standard, which allows application-specific expansion modules to be easily added to the backend side of the PCI interface.
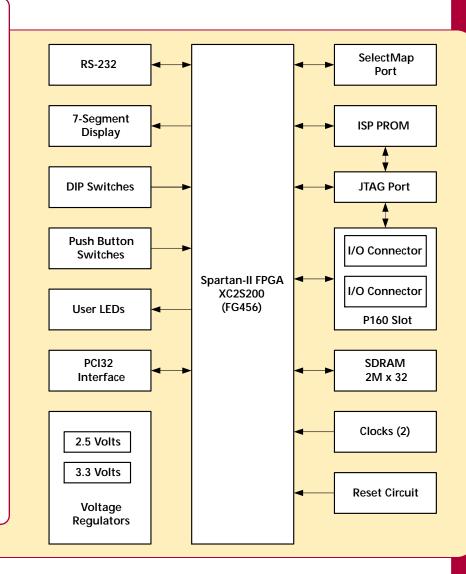
The Spartan-II FPGA family has the advanced features needed to fit the most demanding, high volume applications. The Memec Design Spartan-II 200 PCI Development Kit provides an excellent platform to explore these features and effectively meet time-to-market requirements.

Spartan™-II 200 PCI Development Kit

Spartan-II 200 PCI Development Kit Includes:

- Spartan-II 200 PCI System Board

    – 200,000 gate Spartan-II FPGA device (XC2S200-6FG456C)

    – 32-bit PCI interface

    – 3.3 V, 2.5 V on-board regulators

    – XC18V02 ISP PROM

    – 2 M x 32 SDRAM

    – Two seven-segment LED displays

    – User switches

    – User LEDs

    – I/O bank voltage settings for 2.5 V or 3.3 V

    – Two on-board clock sources

    – JTAG, slave serial, and SelectMAP ports

- AC-to-DC power supply adapter

- Complete reference designs with source code (VHDL and Verilog HDL)

- Bundled software options

RS-232

7-Segment Display

DIP Switches

Push Button Switches

User LEDs

PCI32 Interface

2.5 Volts
3.3 Volts
Voltage Regulators

Spartan-II FPGA XC2S200 (FG456)

SelectMap Port

ISP PROM

JTAG Port

I/O Connector
I/O Connector
P160 Slot

SDRAM 2M x 32

Clocks (2)

Reset Circuit

Ordering Information

Spartan-II 200 PCI Development Kit

	Americas Part #	International Part #
Spartan-II Development Kit	DS-KIT-2S200	DS-KIT-2S200-EURO
Kit with WebPACK CD and JTAG Cable	DS-KIT-2S200-PAK	DS-KIT-2S200-PAK-EURO
Kit with ISE BaseX and JTAG Cable	DS-KIT-2S200-ISE-BAS	
Kit with Xilinx Single Project PCI32S License	DS-KIT-PC132S-200	

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