



The Virtex-II Pro Development Kit from Avnet Design Services offers system level development on a highly advanced hardware platform. The Xilinx Virtex-II Pro family, based on the highly successful Virtex-II architecture, provides a unique environment for developing high-performance microprocessor and I/O intensive applications. The embedded 32-bit IBM PowerPC™ RISC processor delivers over 420 Dhrystone MIPS at 300 MHz, with a high-bandwidth interface to on-chip programmable logic. Additionally, Rocket I/O™ 3.125 Gbps transceivers support emerging connectivity standards.

### The Xilinx Virtex-II Pro Development Kit includes:

- Virtex-II Pro development board with power supply daughtercard
  - User's guide
  - Bill of materials
  - Schematics
- AC/DC power supply module
  - Custom serial cable
  - CompactFlash card
- Linux/PPC v2.4.20 kernel source tree with fully populated RAM disk

Not included:

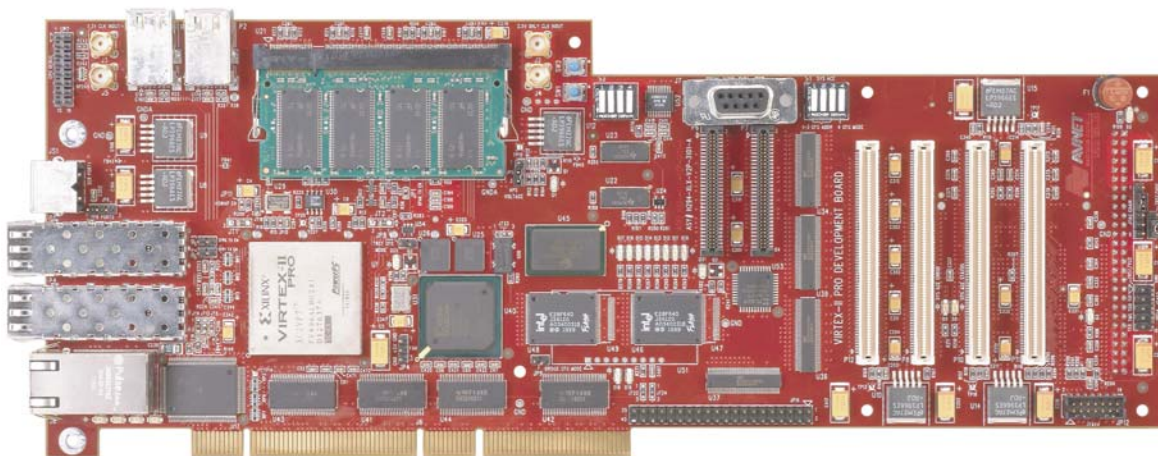
- SFP modules

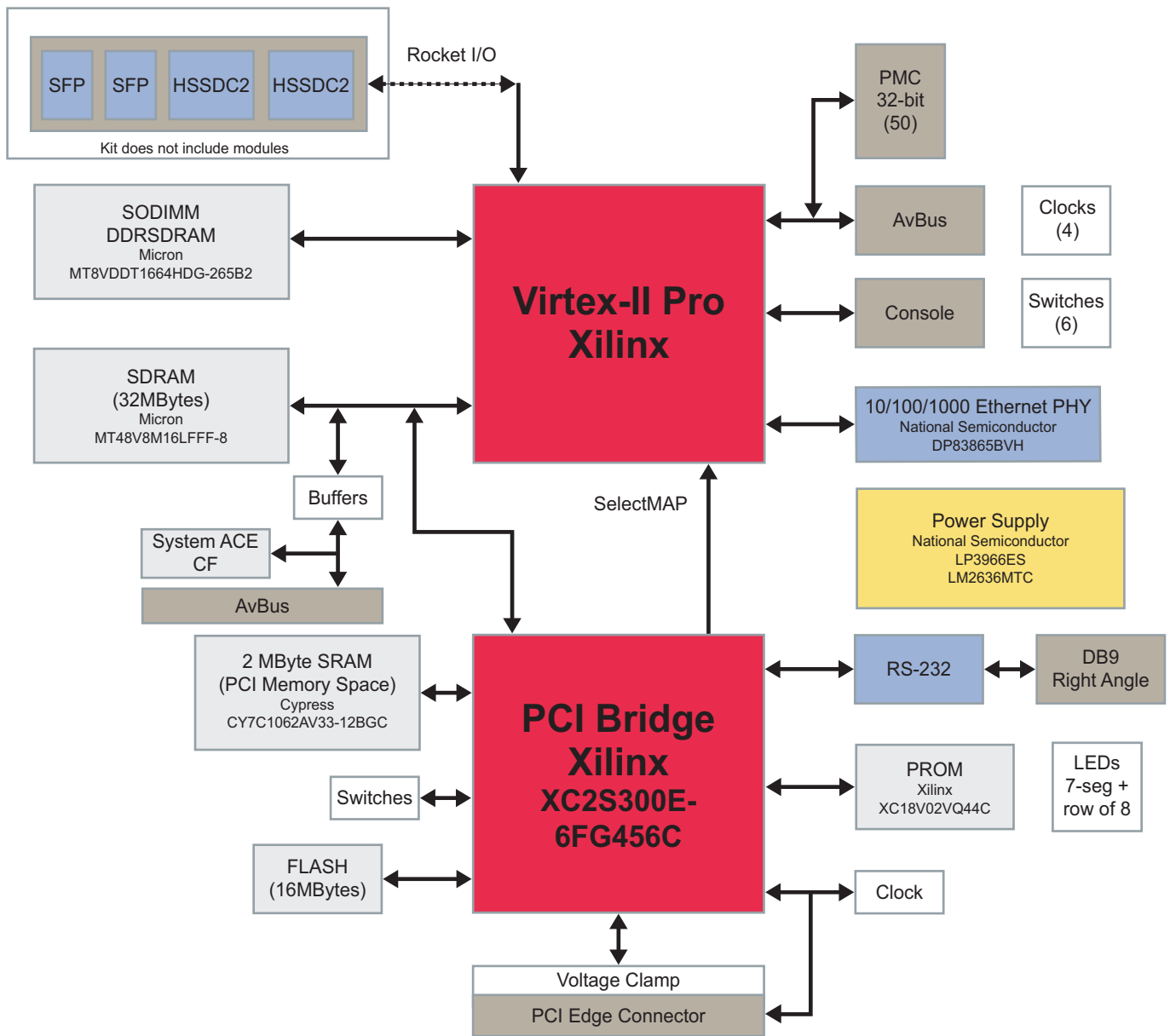
### Features:

- ▲ FPGA
  - Xilinx Virtex-II Pro XC2VP7, XC2VP20 or XC2VP30-xFF896
- ▲ High-speed serial communication
  - Two HSSDC2 connectors (InfiniBand, user may replace with Fibre Channel)
  - Receptacles for 2 SFP modules (Gigabit Ethernet, Fibre Channel, InfiniBand)
- ▲ Board I/O connectors
  - 32-bit PCI Mezzanine Card (PMC) connectors
  - Four 140-pin general purpose I/O expansion connectors (AvBus)
- ▲ Memory
  - Micron DDR SDRAM SODIMM (128MB expandable to 1GB)
  - Micron Mobile SDRAM (two 8Mbit x 16 devices, 32MB total)
  - Cypress asynchronous SRAM (512Kbit x 32, 2MB total)
  - Intel StrataFlash® (16MB total)
  - Compact FLASH card
- ▲ Communication
  - National 10/100/1000 MBit/s Ethernet PHY
  - RS-232 serial ports
- ▲ PCI
  - PCI bridge - Xilinx Spartan™-IIE XC2S300E-FG456 FPGA
  - Windows based GUI interface
  - Configuration or file transfer & system control
  - Universal PCI connector (32-bit or 64-bit slot compatible)
  - Support for both 3.3V and 5.0V PCI signaling
- ▲ Power
  - Power supply daughtercard (+3.3V and +2.5V rails @ 14A total)
  - 50 Watt AC/DC +5.0V power supply
  - National linear regulators
- ▲ Configuration
  - Bridge (Spartan-IIE)
    - Xilinx PROM XC18V02-VQ44
  - In-system programmable PROM
  - Target (Virtex-II Pro)
    - Xilinx System ACE™ CF
    - FLASH or SRAM via PCI and Windows application

### Target Applications:

- ▲ Packet switching
- ▲ Network security
- ▲ Storage area networks
- ▲ Servers and super computers
- ▲ Video computing/transmission
- ▲ High-speed serial interfaces (RapidIO, Fibre Channel and Hypertransport)





Supporting suppliers:  *The future of memory*

 *National Semiconductor*

 **XILINX®**

**Ordering Information:**

Part Number	Hardware	Resale
ADS-XLX-V2PRO-DEVP7-6	Xilinx Virtex-II Pro Development Kit with XC2VP7, -6 speed grade	\$2,495.00 USD
ADS-XLX-V2PRO-DEVP20-6	Xilinx Virtex-II Pro Development Kit with XC2VP20, -6 speed grade	\$3,195.00 USD
ADS-XLX-V2PRO-DEVP30-6	Xilinx Virtex-II Pro Development Kit with XC2VP30, -6 speed grade	\$3,695.00 USD
ADS-FOUNDATION-BUNDLE	ISE <i>Foundation</i> (only available with purchase of one of the above part numbers)	\$2,400.00 USD
ADS-EDK-BUNDLE	Xilinx EDK software bundle (only available with purchase of one of the above part numbers)	\$200.00 USD

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