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.

**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

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### 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
- Compact Flash card
- Linux/PPC v2.4.20 kernel source tree with fully populated RAM disk

Not included:
- SFP modules

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### 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)
Ordering Information:

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<thead>
<tr>
<th>Part Number</th>
<th>Hardware</th>
<th>Resale</th>
</tr>
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<td>ADS-XLX-V2PRO-DEVP7-6</td>
<td>Xilinx Virtex-II Pro Development Kit with XC2VP7, -6 speed grade</td>
<td>$2,495.00 USD</td>
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<td>ISE Foundation (only available with purchase of one of the above part numbers)</td>
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<td>ADS-EDK-BUNDLE</td>
<td>Xilinx EDK software bundle (only available with purchase of one of the above part numbers)</td>
<td>$200.00 USD</td>
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