



AFX Prototyping Boards Make Virtex-II Pro Development Easy

You first develop your FPGA design using our software tools, and as soon as it is completed you want to test it on in a device. However, if a complete, fully tested PC board is not available, you can experience delays at the most critical time in your project. Xilinx offers a solution, with an easy-to-use prototyping and demonstration board.

Now, with the Virtex-II Pro™ AFX boards, you can quickly test your design, as well as experiment with device features. You are free to focus on using all the power of the Virtex-II Pro FPGA to create your best design, without worrying about the details of implementation.



Simplify the Development Process

Design schedules are always tight, and you are looking for a way to test your design. You can build your own prototype board, but that can take time away from higher priority tasks. Fortunately, Xilinx Virtex-II Pro AFX boards can offer a fast, easy-to-use way to demonstrate your design. You also get other key advantages, including:

- **Hardware/software integration** – Your development time is reduced, and more secure, because the AFX board:
 - Provides a uniform platform for both hardware and software development
 - Allows you to easily verify hardware and software partitioning
 - Enables you to dynamically partition your hardware (logic design) and software (embedded processor code), to arrive at an optimal design.
- **Integrated debugging** – You can quickly verify your design using ChipScope Pro™ to debug your IP cores and analyze busses.
- **Decreased costs** – The price of the AFX board is far less than the engineering costs to develop your own. So, you can focus your resources where they count the most – on adding value to your design. And you can use your board for your next design.
- **Reduced Risks** – By removing a big “unknown” from your project (prototype development time), you can make more accurate development schedules and be assured of success with a proven, standard platform.
- **Education** – You can easily learn how to use all of the advanced Virtex-II Pro FPGA features.
- **Benchmarking** – You can test your processor code, high-speed serial I/Os, and other features, in real time.
- **Flexibility** – You can easily migrate between different Virtex-II Pro devices within the same package on the board

There is no faster, easier, or safer way to prototype your next design.

Features

- Available in 3 different sockets to support Virtex-II Pro devices in FG456, FF672, and FF1152 packages (2VP2, 2VP4, 2VP7, 2VP20, 2VP30, 2VP40, and 2VP50)
- 8 MB (32-bit data width) SDRAM
- RS232 serial port
- Prototyping area
- 12 global clock (GCLK) inputs (four differential clock pairs, four LVTTTL-type oscillator sockets)
- Two low-voltage, 14-pin, DIP crystal oscillators
- Independent power supply jacks for VCORE, VCCAUX, VCCO, and MGT_V CC
- Selectable VCCO for each SelectI/O™-Ultra bank
- Configuration port for use with Parallel III and IV cables
- Two onboard SPROMs (4 Mb each) for any configuration mode
- Headers for CPU debug, CPU trace, and JTAG CPU port
- JTAG port for reprogramming the XC18Vxx series reconfigurable PROMs and the user FPGA
- Four duplex channels of MGTs(Multi-gigabit transceivers)
- Eight pairs of (TX, RX) SMA inputs for the RocketIO transceivers
- Upstream and downstream System ACE™ and Configuration Interface connectors
- Onboard battery holder

Kit Contents

- Xilinx Virtex-II Pro Prototype Platform board
- User guide
- Device vacuum tool
- Four SMA-to-SMA coax cable assemblies Headers for test points
- CD-ROM (design examples, schematics, bit stream files, and gerber files)
- Two low-voltage, 14-pin, dual-inline package (DIP) crystal oscillators

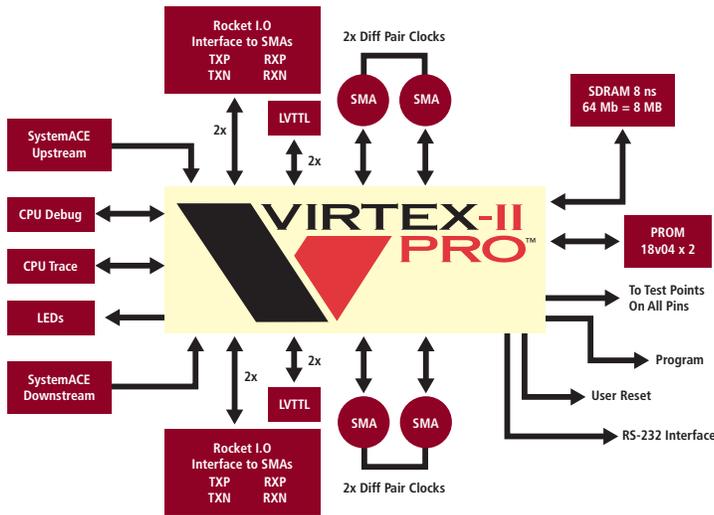
Note: Virtex-II Pro parts should be ordered separately since each board is designed to support different parts with the same package and pin counts.

Ordering Information:

- HW-AFX-FF1152-300
- HW-AFX-FF 672-300
- HW-AFX-FG 456-300

Why Wait?

To place your order for the Virtex-II Pro AFX boards, call your local Xilinx sales representatives at 1-800-888-FPGA or order through the Xilinx online store at www.xilinx.com/store. For the latest information on the Virtex-II Pro family of FPGAs go to: www.xilinx.com/virtex2pro



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