

Today's shrinking budgets and design cycles have made evaluating, designing, and testing complex systems more challenging than ever before.

Xilinx provides the answer with the Virtex-4 ML401
Evaluation Platform. Powered by the 4VLX25 device and supported by industry-standard peripherals, connectors, and interfaces, the Virtex-4 ML401 Evaluation Platform provides a rich feature set that spans a wide range of applications.

Xilinx also provides expert guidance to designers in the form of hardware-verified reference designs, application notes, user-friendly tools, and development boards. When combined with the Virtex-4 FPGA's extensive silicon capability, this comprehensive support enables designers to implement robust systems quickly and easily.

Virtex-4™ML401 Evaluation Platform

The Low-Cost, Full-Featured FPGA Development System



The Ideal Platform to Evaluate and Implement Your FPGA Design

Leverage the ML401 Board's Rich Feature Set

- Support for multiple clock sources and differential clock inputs
- Memory interfaces for DDR SDRAM, ZBT SRAM, and Linear Flash
- Multiple FPGA configuration modes: Platform Flash, System ACE CF, Linear Flash, and Parallel Cable-IV
- Audio and video interfaces
- Multiple user interfaces: dual PS/2, IIC Bus, RS-232, USB, and Tri-Mode Ethernet
- High-speed expansion module interface supporting single-ended and LVDS I/O standards

Optimize Your Design with Unique Built-In Silicon Features

- ChipSync™ source-synchronous technology embedded in every I/O ensures reliable data capture
- Xesium[™] differential global clocks minimize skew and jitter for increased design margins

Finish Faster Using Proven Reference Designs

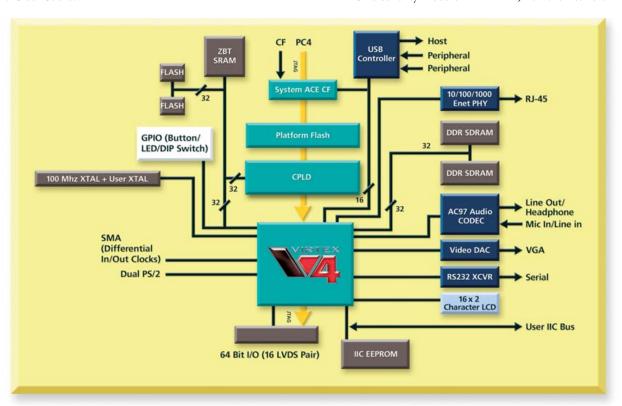
- Reference designs and IP cores for numerous applications speed up your design cycle
- A comprehensive suite of application notes guide you every step of the way
- Demonstrations ship in Platform Flash, Linear Flash, and System ACE CF



Virtex-4 ML401 Evaluation Platform Features

- · Xilinx Devices
 - XC4VLX25-FF668-10C
 - XC95144XL
 - XCCACE (System ACE[™] CF)
- XCF32P (Platform Flash)
- Clocks
 - 100 MHz Oscillator
 - Extra Clock Socket

- Memory
 - 64 MB DDR SDRAM
 - 1 MB ZBT SRAM
 - 32 MB Compact Flash
 - 8 MB Flash
 - 4 kb IIC EEPROM
 - 32 Mb Platform Flash
- · Display
 - 16x2 Character LCD
- · Connectors and Interfaces
 - 4 SMA Connectors(Differential Clocks)
 - 2 PS/2 Connectors (Keyboard/Mouse)
 - LVDS Personality Module
- 4 Audio (Line In, Line Out, Microphone, Head Phone)
- RS-232 Serial Port
- 3 USB (Host and2 Peripherals)
- Parallel Cable-IV Header
- DB15 VGA Display
- RJ-45 Ethernet Port



Additional Tools and Services

- Xilinx Integrated Software Environment (ISE)
- Xilinx Embedded Development Kit (EDK)
- ChipScope™ Pro Debug, analyze and verify your design in real time
- IP Center Comprehensive suite of verified IP cores
- Education Services Increase your skill set and reduce your timeto-knowledge

Take the Next Step

Order your ML401 Evaluation Platform today and get a head start on your design. For more information about the Virtex-4 FPGA family visit www.xilinx.com/virtex4







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