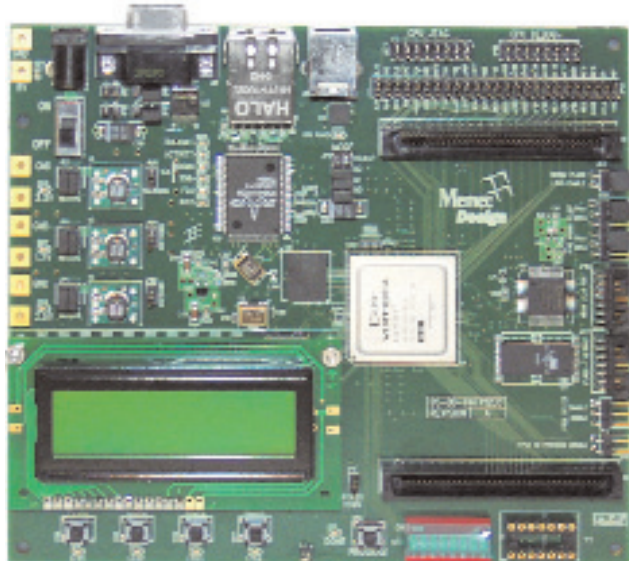


# ▶▶ Virtex-4 FX LC Development Kit



**The perfect solution for FPGA and system designers who need a low cost, flexible prototype platform.**

▶ The Memec Virtex-4 FX LC Development Kit is the ideal solution for investigating the embedded PowerPC™ and tri-mode Ethernet MAC included in the Xilinx Virtex-4 FX FPGA family. These advanced on-chip features require interfaces and supporting circuits that the FX LC platform delivers. The kit is also ideal for experimenting with the UltraController-II design from Xilinx. The FX LC kit bundles a full-featured, expandable Virtex-4 FX based system board with the Xilinx Embedded Development Kit (EDK), a power supply, user guide and reference designs. Optional Xilinx ISE software and application specific P160 expansion modules are also available.



The Virtex-4 FX LC board is based on the 4VFX12 FPGA, with a PowerPC 405 core, two tri-mode Ethernet MACs and 12,312 logic cells. The FX LC board supports an assortment of prototyping interfaces and functions including, 10/100/1000 Ethernet PHY, DDR memory, flash memory, serial port, USB-to-UART port, 2 x 16 character LCD panel, user switches and LEDs, clocks, and a System ACE™ interface. A P160 expansion slot is also available for the addition of application modules and custom circuits. Configuration support is provided by a JTAG interface and a PlatformFlash™ memory device.

The Virtex-4 FX family contains the most advanced technology from Xilinx today. The Memec Virtex-4 FX LC Development Kit allows designers to explore these cutting edge features and effectively meet their time-to-market requirements.

## Features

- ▶ 10/100/1000 Ethernet PHY
- ▶ 32M x 16 DDR Memory
- ▶ 2M x 16 Flash Memory
- ▶ USB-UART Port
- ▶ RS-232 Interface
- ▶ 2 x 16 Character LCD
- ▶ User Switches and LEDs
- ▶ P160 Standard Interface
- ▶ System ACE Interface
- ▶ CPU Debug Port
- ▶ Low Cost and Versatile

## Applications

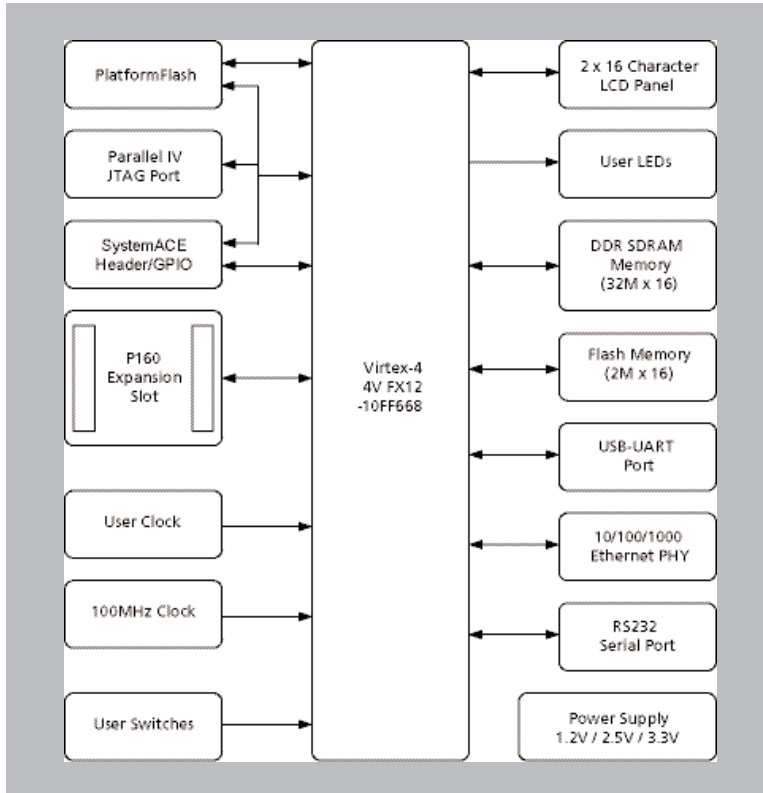
- ▶ PowerPC Applications
- ▶ Ethernet/Networking Applications
- ▶ IP Development
- ▶ MicroBlaze Applications
- ▶ General Purpose Development

Americas 🇺🇸 Asia-Pacific 🇯🇵 EMEA 🇪🇺 Japan 🇯🇵



▶▶ Contact **Memec** at **888.488.4133 ext. 251** or **858.314.8190** or **www.memec.com/xilinxkits**

# ▶▶ Virtex-4 FX LC Development Kit



## Virtex-4 FX LC Development Kit Includes

- ▶ Virtex-4 FX LC Board
  - 10/100/1000 Ethernet PHY
  - 32M x 16 DDR Memory
  - 2M x 16 Flash memory
  - 2 x 16 Character LCD
  - RS232 Port
  - USB-UART Port
  - User Switches and LEDs
  - P160 Standard Interface
  - System ACE Interface
  - CPU Debug Port
  - 3.3V, 2.5V and 1.2V Regulators
- ▶ AC/DC Power Supply Adapter
- ▶ Complete Reference Designs with Source Code (VHDL and/or Verilog HDL)
- ▶ Bundled Software Options

## Ordering Information

Virtex-4 FX LC Development Kit	Americas Part#	International Part#
Virtex-4 FX LC Development Kit	DS-KIT-4VFX12LC	DS-KIT-4VFX12 LC-EURO
Virtex-4 FX LC Kit with EDK	DS-KIT-4VFX12LC-EDK	DS-KIT-4VFX12LC-EDK-EURO
With EDK, ISE Foundation and PC4 JTAG	DS-KIT-4VFX12LC-ISE	



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