



#### Virtex-5 LXT FPGA Gigabit Ethernet Development Kit

**Purpose:** Virtex-5 LXT FPGA Gigabit Ethernet development  
**Kit Part Number:** HW-V5GBE-DK-UNI-G  
**Device Supported:** Virtex-5 LXT XC5VLX50T-1FF1136C  
**Kit Resale Price:** \$1,395

#### Description

The Virtex™-5 LXT FPGA Gigabit Ethernet Development kit supports 10/100 Mbps and 1 Gbps speeds. This complete development kit enables you to rapidly create and evaluate designs for Ethernet applications.

#### Features

- Quick Start Guide & Platform USB programming cable
- ISE Evaluation Software & access to IP LogiCOREs
- Resource CD (Reference Designs, Labs, Demonstrations)
- Connectors: GbE – SFP & RJ45 connectors, 10/100 Mbps; RJ45 connector

For further details, please visit [www.xilinx.com/gbedevkit](http://www.xilinx.com/gbedevkit)



#### Virtex-5 LXT Development Kit for PCI Express, PCI-X and PCI

**Purpose:** Application Development Platform for PCI Express and PCI  
**Kit Part Number:** HW-V5-ML555-G  
**Device Supported:** Virtex™-5 LXT XC5VLX50T-1FF1136CES  
**Kit Resale Price:** \$2,200

#### Description

The Virtex-5 LXT FPGA Development kit for PCI-Express® supports PCIe®, PCI-X™, and PCI™. This complete development kit passed PCI-SIG compliance for PCI Express v1.1 and enables you to rapidly create, and evaluate designs using PCI Express, PCI-X and PCI interfaces.

#### Features

- Quick Start Guide & Platform USB programming cable
- ISE Evaluation Software & access to IP LogiCOREs
- Resource CD (Reference Designs, Labs, Demonstrations)
- Connectors: PCIe – 8-land add-in card connector, PCI/PCI-X; standard edge connector

For further details, please visit [www.xilinx.com/v5pciekit](http://www.xilinx.com/v5pciekit)



#### Embedded Development HW/SW Kit – Virtex-4 FX12 PowerPC & MicroBlaze Processor Edition

**Purpose:** Advanced Embedded Processing Development Kit  
**Kit Part Number:** DO-ML403-EDK-ISE  
**Device Supported:** DO-ML403-EDK-ISE-PC4-US  
**Kit Resale Price:** \$895

#### Description

The FX12 Edition Development Kit for Embedded Processing applications includes the ML403 development board; Platform Studio embedded tool suite and ISE FPGA Design Software, supporting both the PowerPC™ hard and MicroBlaze™ soft processors. The FX12 Development Kit is only available with USB JTAG cable and has a regional power supply available for the US, Continental Europe or the UK.

#### Features

- Powerful Virtex-4 ML403 Development Board
- Full Seat of Platform Studio Embedded Tool Suite
- ISE WebPACK FPGA Design Software
- Reference Designs, JTAG probe, FLASH device, cables and power supply

For further details, please visit  
[www.xilinx.com/products/devkits/DO-ML403-EDK-ISE-USB-UNI-G.htm](http://www.xilinx.com/products/devkits/DO-ML403-EDK-ISE-USB-UNI-G.htm)



### Spartan-3A Starter Kit

**Purpose:** Low cost Spartan-3A platform evaluation kit  
**Kit Part Number:** HW-SPAR3A-SK-UNI-G  
**Device Supported:** Spartan-3A XC3S700A-FG484  
**Kit Resale Price:** \$189

#### Description

The Spartan-3A Starter Kit provides the user a complete development system and an out-of-the-box functionality to quickly test out the Spartan-3A device features. The Spartan-3A features a Device DNA for IP-secure mechanisms and 26 differential and single ended I/O standards such as LVDS, RSDS, TMDS and flexible power management.

#### Features

- Evaluation board with Spartan-3A FPGA XC3S700A-FG484, on-board 10/100 Ethernet PHY, SPI based ADC & DAC circuitry, 64Mbytes DDR2, two 16Mbit SPI serial flash and more
- Interfaces include a 2x16 LCD display, and various I/O ports including a PS/2 port, a VGA display port, and two serial ports
- Kit includes evaluation board, power supply with universal adaptors, programming cable, quick-start guide, design tools evaluation software, collateral and more.

For further details, please visit [www.xilinx.com/s3astarter](http://www.xilinx.com/s3astarter)



### Spartan-3AN Starter Kit

**Purpose:** Low cost Spartan-3AN evaluation kit  
**Kit Part Number:** HW-SPAR3AN-SK-UNI-G  
**Device Supported:** Spartan-3AN XC3S700AN-4FGG484C  
**Kit Resale Price:** \$199

#### Description

The Spartan-3AN Starter Kit provides the user a complete development system and an out-of-the-box functionality to quickly test out the Spartan-3AN device features. Reference designs include a Device DNA reader, fractal display generator and on-chip flash programmer, and much more.

#### Features

- Evaluation board with Spartan-3AN FPGA XC3S700AN-FG484, on-board 10/100 Ethernet PHY, SPI based ADC & DAC circuitry, 64Mbytes DDR2, two 16Mbit SPI serial flash and more
- Interfaces include a 2x16 LCD display, and various I/O ports including a PS/2 port, a VGA display port, and two serial ports
- Kit includes evaluation board, power supply with universal adaptors, programming cable, quick-start guide, design tools evaluation software, collateral and more.

For further details, please visit [www.xilinx.com/s3anstarter](http://www.xilinx.com/s3anstarter)



### XtremeDSP Starter Platform – Spartan-3A DSP 1800A Edition

**Purpose:** Low cost, entry-level environment for developing signal processing designs  
**Kit Part Number:** HW-SD1800A-DSP-SB-UNI-G  
**Device Supported:** Spartan-3A DSP XC3SD1800A-4FGG676C  
**Kit Resale Price:** \$295

#### Description

Powered by the Spartan-3A DSP 1800A device and supported by industry-standard peripherals, connectors, and interfaces, this evaluation platform delivers instant access to Spartan-3A DSP family capabilities. Designed for use with the Xilinx System Generator for DSP and ISE™ design tools, the Spartan-3A DSP 1800A starter platform provides a great low-cost entry-level environment for developing signal processing designs.

#### Features

- Xilinx Devices: XC3SD1800A-4FGG676C Spartan-3A DSP FPGA
- Memory: 128MB (32M x 32) DDR2 SDRAM; 16Mx8 Parallel / BPI Configuration Flash; 64Mb SPI Configuration / Storage Flash (with 4 extra SPI selects)
- EXP expansion connector

For further details, please visit [www.xilinx.com/s3adsstarter](http://www.xilinx.com/s3adsstarter)



### Spartan-3 Starter Kit

**Purpose:** Low cost Spartan-3 platform development kit  
**Kit Part Number:** HW-SPAR3-SK-UNI-G  
**Device Supported:** Spartan-3 X3S200-FT256  
**Kit Resale Price:** \$149

#### Description

The Spartan-3 Starter Kit provides the user a complete development system and an out-of-the-box functionality to quickly test out the Spartan-3A device features.

#### Features

- Evaluation board with Spartan-3 FPGA, 1Mbyte fast SRAM, 256Kx32 SRAM arrays, two independent 256Kx16 SRAM arrays
- Interfaces include VGA and PS/2 mouse/keyboard, and a seven segment display
- Kit includes evaluation board, power supply with universal adaptors, programming cable, quick-start guide, design tools evaluation software, collateral and more

For further details, please visit [www.xilinx.com/s3starter](http://www.xilinx.com/s3starter)



### Spartan-3E Starter Kit

**Purpose:** Low cost Spartan-3E platform development kit  
**Kit Part Number:** HW-SPAR3E-SK-UNI-G  
**Device Supported:** Spartan-3A XC3S700A-FG484  
**Kit Resale Price:** \$149

#### Description

The Spartan™-3E FPGA Starter Kit is a complete development board solution giving designers instant access to the capabilities of the Spartan-3E family. Complete kit includes board, power supply, evaluation software, resource CD (application notes, white papers, data sheets, etc.), and USB cable.

#### Features

- Evaluation board with Spartan-3E FPGA XC3S500E-4FG320C, CoolRunner™-II XC2C64A-5VQ44C, 128 Mbit Parallel Flash, 16 Mbit SPI Flash, 64 MByte DDR SDRAM
- Interfaces include Ethernet 10/100 Phy, two RS-232 serial ports, PS/2 style mouse/keyboard, 2x16 character LCD
- Kit includes evaluation board, power supply with universal adaptors, programming cable, quick-start guide, design tools evaluation software, collateral and more

For further details, please visit [www.xilinx.com/s3estarterkit](http://www.xilinx.com/s3estarterkit)



### Spartan-3E Display Development Kit

**Purpose:** Application Development Kit for Digital Image Processing  
**Kit Part Number:** HW-SPAR3E-DISP-DK-UNI-G  
**Device Supported:** Spartan-3E XC3S1600E-FG484C  
**Kit Resale Price:** \$1,595

#### Description

The Spartan™-3E Display Development Kit is a complete hardware and software reference for developing digital image processing such as Color Temperature Corrections, Gamma Corrections, and Image Dither engine. The Spartan-3E LVDS interface supports a wide variety of applications from flat panel monitors, rear projection televisions, plasma displays, or mobile handheld devices

#### Features

- Development board with Spartan-3E FPGA XC3S1600E-FG484C, 512Mb/16bit x 4 DDR and 16Mbit SPI Flash Memory
- Includes DVI Tx/Rx peripheral cards and pin header adapters
- Reference designs for UXGA Frame buffer and 7:1 LVDS demonstration

For further details, please visit [www.xilinx.com/s3edisplaydevkit](http://www.xilinx.com/s3edisplaydevkit)



### Xilinx Automotive Electronic Control (ECU) Development Kit

**Purpose:** Complete development platform for designing intelligent automotive subsystems  
**Kit Part Number:** HW-XA3S1600E-UNI-G  
**Device Supported:** Spartan-3E XC3S1600EFG484  
**Kit Resale Price:** \$1,495

#### Description

Xilinx working in cooperative effort with Si-Gate GmbH, a leading provider of automotive electronics solutions, created the Xilinx Automotive ECU Development Kit; a complete development platform ideal for designing in-vehicle networking systems, infotainment, driver assistance, and driver information systems.

#### Features

- Development board equipped with a Spartan-3E FPGA with 1.6 million system gates (XC3S1600E-FG484 FPGA)
- On-board hardware interfaces such as CAN 2.0C, Ethernet 10/100, USB 2.0, SPI, and SCI
- Pre-verified support for High and Low Speed CAN, FlexRay™ and MOST® network interfaces (daughter card is required for MOST interface)

For further details, please visit [www.xilinx.com/automotive](http://www.xilinx.com/automotive)



### DDR2 SDRAM Interface Development Kit for Spartan-3A

**Purpose:** Low Cost General Prototyping Development Kit  
**Kit Part Number:** HW-SPAR3ADDR2-DK-UNI-G  
**Device Supported:** Spartan-3A XC3S700A-FG484  
**Kit Resale Price:** \$235

#### Description

The DDR2 SDRAM Interface Development Kit for Spartan-3A FPGAs is a complete development solution giving designers instant access to the capabilities of the Spartan-3A family and tailored for DDR2 SDRAM interface development.

#### Features

- Xilinx Devices: Spartan-3A XC3S700A-FG484 and Platform Flash XCF04S-VOG20C
- Clocks: 133 MHz Crystal Oscillator (in socket) and 50 MHz Crystal Oscillator on-board
- Memory: 32Mx16 DDR2 SDRAM, 32 Mbit parallel Flash and more
- Includes board, power supply with universal adaptors, programming cable, collateral and more

For further details, please visit [www.xilinx.com/s3addr2](http://www.xilinx.com/s3addr2)



### Embedded Development HW/SW Kit – Spartan-3E S3E1600E MicroBlaze Processor Edition

**Purpose:** Flexible Embedded Processing Development Kit  
**Kit part number:** DO-SP3E1600E-DK-UNI-G  
**Devices Supported:** XC3S1600E-4FG320C FPGA  
**Kit Resale Price:** \$595

#### Description

A comprehensive development kit of hardware, design tools, IP and pre-verified reference designs can rapidly accelerate your embedded development. The Spartan-3E 1600E Edition of the MicroBlaze Development Kit includes the SP3E1600E development board, Platform Studio embedded tool suite and ISE design software, supporting MicroBlaze soft processing design. This kit is RoHS compliant.

#### Features

- Xilinx Devices: XC3S1600E-4FG320C FPGA, XC9572XL CPLD
- Full Seat of Platform Studio embedded tool suite
- ISE WebPACK FPGA design software
- Reference Designs, USB A/B download cable, UART and Ethernet cables and power supply

For further details, please visit [www.xilinx.com/embdevkits](http://www.xilinx.com/embdevkits)



**Embedded Development HW/SW Kit –  
Spartan-3A DSP S3D1800A MicroBlaze Processor Edition**

**Purpose:** Flexible Embedded Processing Development Kit  
**Kit part number:** DO-SD1800A-EDK-DK-UNI-G  
**Devices Supported:** XC3SD1800A-4FGG676C FPGA  
**Kit Resale Price:** \$595

**Description**

A comprehensive development kit of hardware, design tools, IP and pre-verified reference designs can rapidly accelerate your embedded development. The Spartan-3A DSP 1800A Edition of the MicroBlaze Development Kit includes the Spartan-3A DSP 1800A development board, Platform Studio embedded tool suite and ISE design software, supporting MicroBlaze soft processing design. This kit is RoHS compliant.

**Features**

- Xilinx Devices: XC3SD1800A-4FGG676C
- Full Seat of Platform Studio embedded tool suite
- ISE WebPACK FPGA design software
- Reference Designs, USB programming download cable, UART and Ethernet cables and power supply

For further details, please visit [www.xilinx.com/s3adspmb](http://www.xilinx.com/s3adspmb)



**XtremeDSP Development Platform –  
Spartan-3A DSP 3400A Edition**

**Purpose:** Spartan-3A DSP application development solution  
**Kit Part Number:** HW-SD3400A-DSP-DB-UNI-G  
**Device Supported:** XC3SD3400A-4FGG676C Spartan-3A DSP FPGA  
**Kit Resale Price:** \$995

**Description**

Powered by the Spartan™-3A DSP 3400A device and supported by industry-standard peripherals, connectors and interfaces, the Spartan-3A DSP Platform provides a rich feature set that spans a wide range of applications. Designed for use with the Xilinx System Generator for DSP development platform, the Spartan-3A DSP Development Platform provides a great entry-level environment for developing signal processing designs.

**Features**

- Xilinx Devices: XC3SD3400A-4FGG676C Spartan-3A DSP FPGA
- On-board 256 MB DDR2 SDRAM; 256 Mbits Flash; 9 Mbits ZBT SRAM; 32 Mbits Platform Flash; 16 Mbits SPI EEPROM; 256 MB Compact Flash
- Two FMC (FPGA Mezzanine Card) LPC expansion connector

For further details, please visit [www.xilinx.com/s3adsp\\_db](http://www.xilinx.com/s3adsp_db)



**Spartan-3 PCI Express Starter Kit**

**Purpose:** Spartan-3 PCIe application development solution  
**Kit Part Number:** HW-S3PCIE-DK  
**Regional Version:** HW-S3PCIE-DK-J  
**Device Supported:** Spartan-3 XC3S1000-4FGG676C  
**Kit Resale Price:** \$349

**Description**

The Spartan™-3 PCI Express Starter Kit is a complete development board solution giving designers instant access to the capabilities of the Spartan-3 family and the Xilinx PCI Express Core. Complete kit includes board and evaluation software.

**Features**

- Equipped with Spartan-3 FPGA XC3S1000-4FGG676C, and Platform Flash XCF08P-VO20C
- Development board with PCI Express X1 Card Edge, NXP PCI Express PHY device PX1011A, 32MB x 32 DDR SDRAM, a 50 MHz crystal clock oscillator, an RS-232 Serial Port, Video DAC, and more
- Kit includes development board, power supply, programming cable, design tools evaluation software, collateral and more

For further details, please visit [www.xilinx.com/s3pciester](http://www.xilinx.com/s3pciester)



### CoolRunner-II Starter Kit

**Purpose:** Low cost CPLD prototyping development  
**Kit Part Number:** HW-CRII-SK-G  
**Device Supported:** CoolRunner-II XC2C256  
**Kit Resale Price:** \$49.95

#### Description

The CoolRunner-II Starter Kit is an ideal platform to evaluate and implement your CPLD designs quickly. A unique development board with eight peripheral connectors, it allows you to select from a variety of peripheral expansion modules (sold separately) to expand the capabilities of your design.

#### Features

- XC2C256 CoolRunner-II CPLD in TQ144 package
- Evaluation board with eight connectors for peripheral expansion modules, and built-in temperature and power monitor, Xilinx ISE WebPACK™ PLD design environment software
- Includes 3 peripheral modules (SSD, PS2, Switches)

For further details, please visit [www.xilinx.com/cr2starter](http://www.xilinx.com/cr2starter)



### CoolRunner-II Starter Kit Peripheral Module Bundle

**Purpose:** Expansion cards for CoolRunner-II Starter Kit  
**Kit Part Number:** HW-CRII-PM-ACC-G  
**Device Supported:** CoolRunner-II Starter Kit  
**Kit Resale Price:** \$99

#### Description

The CoolRunner-II Peripheral Module Bundle adds eight individual modules to your CoolRunner-II Starter Kit. Add A/D, D/A, serial flash, DC motor amplifier, or a speaker/ headphone amplifier module to your CoolRunner-II Starter Kit (sold separately), and expand functionality at low-cost.

#### Features

- 8-bit, 1MSa/s A/D converter, 2 channels (PMod-AD1)
- 12-bit, 1MSa/s D/A converter, 2 channels (PMod-DA2)
- H-bridge amplifier for DC motor drive, 12V, 2A (PMod-HB3)
- Connector module for driving 4 servo motors (PMod-CON3)
- 1-watt speaker/headphone amplifier (PMod-AMP1)
- 16Mbit serial Flash (PMod-SF)
- 4 open collector outputs (PMod-OC1)
- RS-232 serial port (PMod-RS232)

For further details, please visit [www.xilinx.com/cr2starter](http://www.xilinx.com/cr2starter)



### CPLD Design Kit

**Purpose:** 9500XL CPLD and CoolRunner-II device evaluation platform  
**Kit Part Number:** DO-CPLD-DK-G  
**Devices Supported:** CoolRunner-II XC2C256-7TQ144 and XC9572XL-10VQ44 CPLD  
**Kit Resale Price:** \$50

#### Description

The CPLD Design Kit is a RoHS compliant kit featuring the industry-proven XC9500XL CPLD, ideal for simple glue logic and interfacing. The kit features a versatile evaluation board for easy download of your CPLD designs.

#### Features

- CoolRunner-II XC2C256-7TQ144 and XC9572XL-10VQ44 CPLD
- An evaluation board with 4 2x20 socket connectors, 1.8MHz crystal oscillator, jumpers and a breadboard area
- Kit includes a JTAG cable, ISE WebPACK PLD design environment software, CPLD Design Kit Resource CD

For further details, please visit [www.xilinx.com/cplddesignkit](http://www.xilinx.com/cplddesignkit)