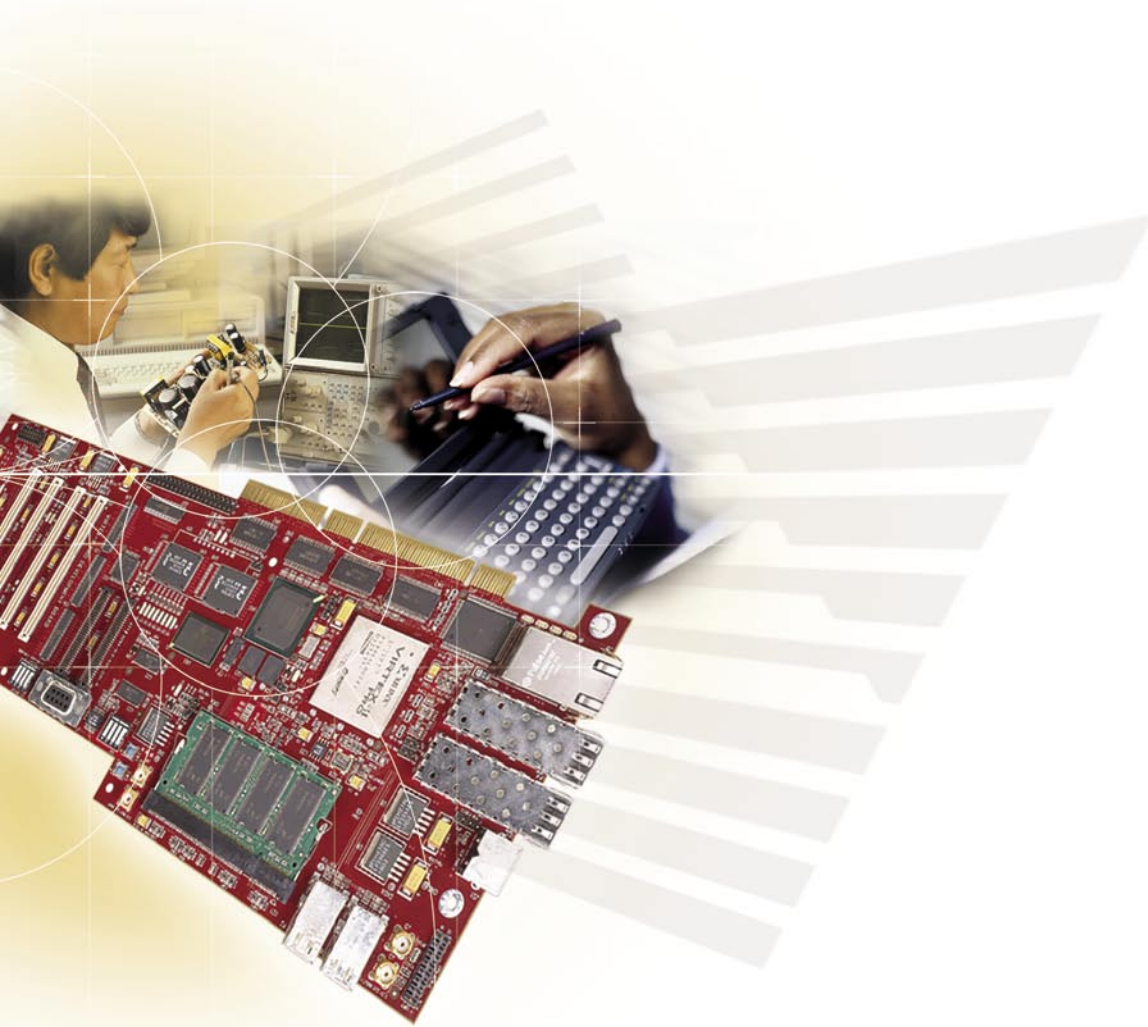




Avnet Product Portfolio



Multi-Product Overview

Avnet Design Services advocates and implements leading edge engineering and technical solutions to OEM customers of Avnet Electronics Marketing.

The services and solutions include:

- Highly trained and objective Field Applications Engineers (FAEs)
- Custom ASIC and FPGA design services
- Access to supplier technology, IP, training, and 3rd party technical alliances
- SpeedWay Design Workshops™
- Different types of Avnet Avenue development and evaluation tools designed with different purposes and service offerings

Evaluation Kits

Avnet Design Services' evaluation kits provide a low-cost way for engineers to evaluate new families or technologies for the first time. They also provide the foundation for many of Avnet's "hands-on" SpeedWay Design Workshops.

Development Kits

Avnet Design Services' development kits are designed for more complex, IP intensive solutions. They allow engineers to implement and debug "real world" designs before custom hardware is available. They include a wide and robust range of peripherals enabling many different applications.

Daughtercards

Daughtercards are designed to extend the peripheral set of the evaluation and development kits. The AvBus board-to-board interconnect method is supported on the Avnet boards while the P160 and P240 interface is supported on the respective Memec boards.

Included Technologies:



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AMCC PowerPC® 440GX Evaluation Kit

- AMCC PowerPC 440GX processor (533MHz)
- 256 MB SODIMM w/ ECC DDR PC2700 module
- 8 MB Flash memory (x16) expandable to 32 MB (x32)
- 64-bit PCI/PCI-X interface (33/66/133 MHz)
- 10/100/1000 Mbps Ethernet port (2)
- I²C serial PROM (256k)
- RS-232 serial port (DB9)
- Second RS-232 serial port and 2 x I²C ports available on header
- Two AvBus expansion connectors (via 440GX External Peripheral Bus)

ADS-IBM-440-EVL
\$749.00 USD

FreescalTM Semiconductor



Freescal Semiconductor ColdFire® Evaluation Kit

- Freescal MCF5282 ColdFire processor
- 16 MB SDRAM
- 8 MB Flash
- CAN interface
- Two RS-232 serial ports
- 10/100 Mbps Ethernet port
- BDM/JTAG connector
- 8-channel, 10-bit Queued Analog-to-Digital Converter (QADC)
- Queued Serial Peripheral Interface (QSPI) port
- AvBus expansion connector

ADS-MOT-5282-EVL
\$250.00 USD

ADS-MOT-5282PE-EVL
\$300.00 USD
with P&E BDM interface



Freescal Semiconductor PowerQUICC™ Evaluation Kit

- Freescal MPC857T PowerQUICC processor
- AvBus expansion connectors
- JTAG port
- 64 MB SDRAM
- 16 MB Flash connectors (AvBus)
- 1 MB SRAM
- 4 kb serial EEPROM
- RS-232 serial port
- USB 1.1 port
- 10/100 Mbps Ethernet port

ADS-MOT-857-EVL
\$499.00 USD



Freescal Semiconductor MPC885 Evaluation Kit

- Freescal MPC885 PowerQUICC processor (133MHz)
- Embedded IP Security engine
- 10/100 Mbps Ethernet port
- USB 2.0 low/full speed port (host or endpoint)
- RS-232 serial port
- 64 MB SDRAM
- 16 MB Flash
- 1 MB SRAM
- AvBus expansion connectors
- BDM debugger support

ADS-FRS-885-EVL
\$499.00 USD

National Semiconductor®

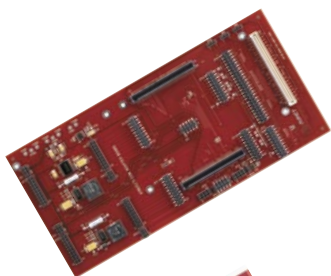


National Semiconductor Dual High-Current Power Supply Kit

- +1.3 to +3.5VDC programmable output
- Power good flag and output enable
- Power sequencing between the two supplies
- Dependent or independent operation
- Over-voltage protection
- External ON/OFF control
- Meets Xilinx FPGA power requirements
- Current limit protection
- LED output indicators
- Multiple input power plugs

ADS-NSC-XP
\$250.00 USD

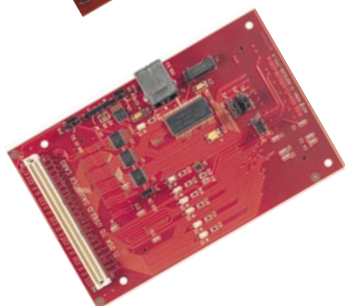
Texas Instruments™



Texas Instruments Analog Adapter Kit

- Two serial data converter sites or one dual-serial site
- One parallel data converter site
- On-board power supply for data converter and signal conditioning EVMs
- Two signal conditioning sites
- AvBus standard evaluation board
- One TMS320 compatible daughtercard site

ADS-TI-AD-DAU
\$75.00 USD

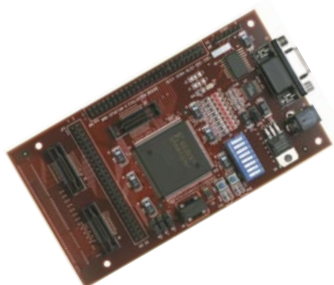


Texas Instruments DSK to USB 2.0 Daughtercard

- Direct interface to 5K, 6K and most 2K DSK boards
- USB 2.0 (Cypress CY7C68001)
- Host and embedded demonstration software
- DSK to AvBus capable

ADS-TI-USB-DAU
\$99.00 USD

Xilinx - Spartan™ Family



Xilinx Spartan-II XC2S150 Evaluation Kit

- Xilinx XC2S150-5PQ208 Spartan-II FPGA
- Xilinx XC18V01SO20C serial configuration PROM
- Regulated 3.3V and 2.5V supply voltages generated from external 5V supply
- Connectors for access to FPGA I/O, including two 50-pin 0.1" header connectors, three MICTOR connectors for easy logic analyzer connection and one 140-pin connector
- 40 MHz oscillator
- SPI 3-wire thermometer
- 8 LEDs
- 8 DIP switches
- 2 push-buttons
- RS-232 serial port
- JTAG port
- AvBus compatible

ADS-XLX-SP2-EVL
\$115.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD
ISE Foundation (only available with purchase of the above part number)



Memec Xilinx Spartan-II LC XC2S100 Kit

- Xilinx XC2S100-5PQ208C Spartan-II FPGA
- Xilinx XC18V01 ISP PROM for configuration
- .1" headers provide access to 78 user I/Os
- Prototype area provides access to 27 user I/Os
- RS-232 serial port
- Two 7-segment LED displays
- 3.3V and 2.5V regulators
- User LEDs and switches
- On-board clock oscillator
- JTAG and SelectMAP configuration ports
- Footprint for XCF01 Platform Flash ISP PROM

DS-KIT-2SLC100

\$150.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

ISE Foundation (only available with purchase of the above part number)



Memec Xilinx Spartan-II XC2S200 PCI Kit

- Xilinx XC2S200-6FG456C Spartan-II FPGA
- Xilinx XC18V02 ISP PROM
- 32-bit PCI interface
- 3.3V and 2.5V on-board regulators
- 2M x 32 SDRAM
- Two 7-segment LED displays
- User LEDs and switches
- I/O bank voltage settings for 2.5V or 3.3V
- Two on-board clock sources
- JTAG, Slave Serial, and SelectMAP ports
- P160 expansion slots

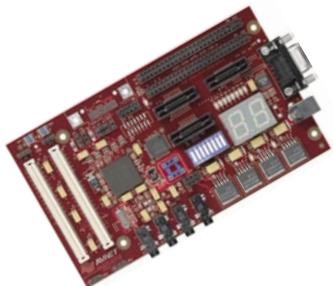
DS-KIT-2S200

\$250.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

ISE Foundation (only available with purchase of the above part number)



Xilinx Spartan-IIE XC2S200E Evaluation Kit

- Xilinx XC2S200E-6FT256C Spartan-IIE FPGA
- Xilinx XC18V02VQ44C serial PROM
- Selectable voltage regulators
- Multimedia interface
- 50 MHz oscillator
- AvBus expansion connectors
- LVDS interface
- Logic analyzer connectors (MICTOR)
- Dual-digit 7-segment LED display
- RS-232 serial port

ADS-XLX-SP2E-EVL

\$179.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

ISE Foundation (only available with purchase of the above part number)



Memec Xilinx Spartan-IIE LC Kit

- Xilinx XC2S300E-6FG456C Spartan-IIE FPGA
- Xilinx XC18V ISP PROM
- 3.3V, 2.5V, and 1.8V regulators
- 8M x 32 SRAM
- .1" headers provide 65 user I/O
- RS-232, VGA, and LCD ports
- One 7-segment LED display
- User LEDs and switches
- I/O bank voltage settings for 2.5V or 3.3V
- Two on-board clock sources
- JTAG, Slave Serial, and SelectMAP ports
- System ACE module connector

DS-KIT-S2E3LC
\$225.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

ISE Foundation (only available with purchase of the above part number)



Xilinx Spartan-3 Evaluation Kit

- Xilinx XC3S400-FG456, XC3S1000L-FG456 or XC3S1500-FG456 Spartan-3 FPGA
- Xilinx Platform Flash configuration PROM
- Two oscillators (66 MHz installed & socket for use frequency selection)
- Two AvBus expansion connectors
- Parallel cable III equivalent JTAG configuration port
- One, 50-pin header for easy I/O access (includes 4 LVDS pairs)
- Universal 32-bit PCI edge connector*
- 10/100 Mbps Ethernet port*
- RS-232 serial port
- DB15 & video DAC
- PS2 keyboard and mouse ports
- Analog I/O**
- 1M SRAM
- 256kb serial EEPROM
- 4-position DIP switch
- 2 push-buttons
- 8 discrete LEDs
- Dual-digit 7-segment LED display

* Development using these ports will require purchase or creation of appropriate IP cores
** Analog I/O provided as described in Xilinx Application Notes XAPP154 & XAPP155

ADS-XLX-SP3-EVL400
\$399.00 USD

ADS-XLX-SP3-EVL1500
\$499.00 USD

ADS-XLX-SP3-EVL1000L
\$599.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

ISE Foundation (only available with purchase of one of the above part numbers)



Xilinx Spartan-3 Development Kit

- Xilinx XC3S1500/2000-FG676 Spartan-3 FPGA
- 2 x 16 character LCD
- 128 x 64 OSRAM OLED graphical display
- DB15 and video DAC
- Three 140-pin general-purpose AvBus expansion connectors, up to 30 LVDS pairs
- PS2 keyboard and mouse ports
- Audio Codec
- Micron 32 MB DDR SDRAM, 2 MB SRAM
- 16 MB Flash
- RS-232 serial port, USB 2.0
- 10/100 Mbps Ethernet port

ADS-XLX-SP3-DEV1500
\$749.00 USD

ADS-XLX-SP3-DEV2000
\$799.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

ISE Foundation (only available with purchase of one of the above part numbers)



Memec Xilinx Spartan-3 LC Kit

- Xilinx XC3S400-4PQ208 Spartan-3 FPGA
- Xilinx XCF02S Platform Flash ISP PROM
- P160 expansion slot
- System ACE/User I/O header
- USB-UART port
- RS-232 serial port
- User clock socket
- One 7-segment LED display
- User LEDs and switches
- On-board clock oscillator
- JTAG configuration port
- 3.3V, 2.5V and 1.2V regulators

DS-KIT-3SLC400

\$125.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

ISE Foundation (only available with purchase of the above part number)



Memec Xilinx Spartan-3 MB Kit

- Xilinx XC3S1500-4FG676 Spartan-3 FPGA
- Platform Flash ISP PROMs
- 16M x 16 DDR memory
- 2M x 16 FLASH memory
- 10/100 Ethernet PHY, USB and serial ports
- Two P160 expansion slots
- LVDS transmit and receive interface (8 data + clock)
- 2 x 16 character LCD
- Piezo speaker
- Two 7-segment LED displays
- User LEDs and switches
- On-board clock oscillator
- System ACE/User I/O header
- JTAG configuration port
- 3.3V, 2.5V, and 1.2V regulators

DS-KIT-3SMB1500

\$595.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

ISE Foundation (only available with purchase of the above part number)



Xilinx Spartan-3E Evaluation Kit

- Xilinx XC3S100E-TQ144 Spartan-3E FPGA
- 50-pin 0.1" header for user I/O
- Dual-character alpha numeric display
- USB 2.0
- USB powered
- Texas Instruments TPS75003 triple supply
- 8 LEDs
- 4-position DIP switch
- 2 push-buttons
- RS-232 serial port
- ST Microelectronic SPI serial Flash
- USB download utility
- Support for Xilinx Parallel Cable IV
- Fly-wire support for any Xilinx or compatible cable
- AvBus compatible

ADS-XLX-SP3E-EVL100

\$69.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

ISE Foundation (only available with purchase of the above part number)

Xilinx - Virtex™ Family



Xilinx PICMG ATCA Design Kit

- Complete PICMG ATCA development platform
- Supports up to 16 cards in a full mesh topology
- Mesh Fabric Reference Design compatible
- Xilinx 2VP50 FPGA for application development
- On-board DDR SDRAM
- IPMB and HA interfaces
- ShMC interface
- RTM serial port
- Daughtercard connectors for user customization
- MultiBERT test environment compatible

ADS-XLX-ATCA-DEVP50
\$4,999.00 USD



Xilinx Virtex-II Evaluation Kit

- Xilinx XC2V1000-4FG256 Virtex-II FPGA
- Xilinx XC18V04VQ44 configuration PROM
- Regulated +3.3VDC and +1.5VDC supplies generated from external +5.0VDC source
- 40 MHz oscillator
- Demonstrations of RS-232 serial port, digital thermometer and LED pattern generator
- Connectors are provided for FPGA I/O, logic analyzer, and AvBus interfaces
- Dual-digit 7-segment LED display
- 8 LEDs
- 8 DIP switches
- 2 push-buttons
- 101 user I/O available
- JTAG port

ADS-XLX-V2-EVL1000
\$279.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD
ISE Foundation (only available with purchase of the above part number)

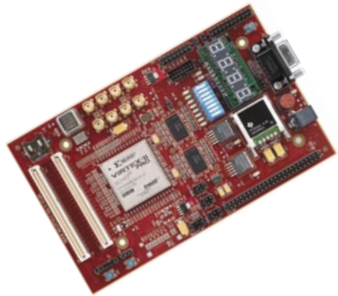


Memec Xilinx Virtex-II MB Evaluation Kit

- Xilinx XC2V1000-4FG456C Virtex-II FPGA
- Xilinx XC18V04 ISP PROM
- P160 expansion slot
- 3.3V, 2.5V, and 1.5V regulators
- 16-bit LVDS interface with control
- 2M x 16 DDR SDRAM
- Two 7-segment LED displays
- User LEDs and switches
- I/O bank voltage settings for 2.5V or 3.3V
- Two on-board clock sources
- JTAG, Slave Serial and SelectMAP ports

DS-KIT-V2MB1000
\$595.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD
ISE Foundation (only available with purchase of the above part number)



Xilinx Virtex-II Pro Evaluation Kit

- Xilinx XC2VP7-6FF896 Virtex-II Pro FPGA
- Eight SMA connectors (TX/RX pairs for two Rocket I/Os™)
- Board configuration loop-back for two Rocket I/Os
- Pads for four additional Rocket I/Os
- Up to 30 LVDS pairs; 50-pin 0.1" header
- Two 140-pin general-purpose AvBus expansion connectors
- Micron DDR SDRAM (64 MB)
- RS-232 serial ports
- Two Xilinx XC18V04-VQ44 PROMs
- Parallel IV cable support for JTAG

ADS-XLX-V2PRO-EVL7-6

\$499.00 USD

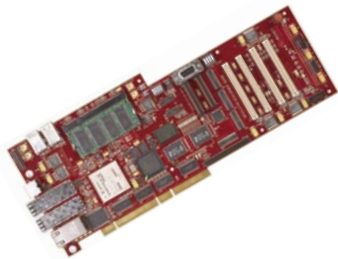
ADS-EDK-BUNDLE

\$200.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Xilinx Virtex-II Pro Development Kit

- Xilinx XC2VP7-xFF896, XC2VP20-xFF896 or XC2VP30-xFF896 Virtex-II Pro FPGA
- Two HSSDC2 connectors (InfiniBand, user may replace with Fibre Channel)
- Receptacles for 2 SFP modules (Gigabit Ethernet, Fibre Channel, InfiniBand)
- 32-bit PCI Mezzanine Card (PMC) connectors
- Four 140-pin general-purpose AvBus expansion connectors
- Micron DDR SDRAM SODIMM (128 MB expandable to 1 GB), 32 MB SDRAM
- Support for both 3.3V and 5.0V PCI signaling
- Universal PCI connector (32-bit or 64-bit slot compatible)
- Windows-based GUI interface
- Power supply daughtercard (+3.3V and +2.5V rails @ 14A total)
- National Semiconductor 10/100/1000 Mbps Ethernet port, RS-232 serial ports
- CompactFlash card
- Cypress asynchronous SRAM (512Kbit x 32, 2 MB total), Intel® StrataFlash® (16 MB total)

ADS-XLX-V2PRO-DEVP7-6

\$2,495.00 USD

ADS-XLX-V2PRO-DEVP20-6

\$3,195.00 USD

ADS-XLX-V2PRO-DEVP30-6

\$3,695.00 USD

ADS-EDK-BUNDLE

\$200.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Memec Xilinx Virtex-II Pro LC Kit

- Xilinx XC2VP4-5FG456 Virtex-II Pro FPGA
- P160 expansion slot
- User I/O connectors with 64 I/O
- System ACE interface compatible
- Serial port
- USB port
- 2 x 16 character LCD
- User LEDs and switches
- Piezo speaker
- Platform Flash
- JTAG, CPU debug ports

DS-KIT-2VP4LC-NE

\$295.00 USD

ADS-EDK-BUNDLE

\$200.00 USD

ADS-FOUNDATION-BUNDLE

\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Memec Xilinx Virtex-II Pro FG456 Kit

- Xilinx XC2VP7-6FG456 Virtex-II Pro FPGA
- Two Xilinx XC18V04 ISP PROMs
- Four RocketIO transceivers (2.5 Gbps)
- 8M x 32 SDRAM
- P160 expansion slot
- System ACE interface
- 3.3V, 2.5V, and 1.5V regulators
- 2 x 16 character LCD
- User LEDs and switches
- I/O bank voltage settings for 2.5V or 3.3V
- Four clock sources
- JTAG, CPU debug/JTAG/trace ports

DS-KIT-2VP7FG456-NE
\$995.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Memec Xilinx Virtex-II Pro FF672 Kit

- Xilinx XC2VP4-6FF672 or XC2VP7-6FF672 Virtex-II Pro FPGA
- Four RocketIO transceivers (3.125 Gbps)
- 8M x 32 SDRAM
- P160 expansion slot
- System ACE interface
- Two XC18V04 ISP PROMs
- 3.3V, 2.5V, and 1.5V regulators
- 2 x 16 character LCD
- User LEDs and switches
- I/O bank voltage settings for 2.5V or 3.3V
- Four clock sources
- JTAG, CPU debug/JTAG/trace ports

DS-KIT-2VP4FF672-NE
\$695.00 USD

DS-KIT-2VP7FF672-NE
\$1,095.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Memec Xilinx Virtex-II Pro FF1152 Kit

- Xilinx XC2VP20-6FF1152, XC2VP30-6FF1152, or XC2VP50-6FF1152 Virtex-II Pro FPGA
- Six RocketIO transceivers (3.125 Gbps)
- Two iSFP interfaces (3.125 Gbps)
- 16-bit Tx/Rx LVDS interface
- 10/100 Ethernet PHY
- Two SDRAM memory blocks (32 MB each, x 32 memory configuration)
- P160 expansion slot
- System ACE interface
- IDE interface and two serial ports
- Three programmable LVDS clocks
- User LEDs and switches
- Two standard clock sources
- 2 x 16 character LCD
- JTAG, CPU debug, CPU JTAG ports

DS-KIT-2VP20FF1152-NE
\$1,595.00 USD

DS-KIT-2VP30FF1152-NE
\$2,195.00 USD

DS-KIT-2VP50FF1152-NE
\$3,195.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Xilinx Virtex-4 FX12 Evaluation Kit

- Xilinx XC4VFX12-FF668 Virtex-4 FPGA
- 128 x 64 OSRAM graphical display
- AvBus connectivity including 30 LVDS pairs
- 50-pin header for user I/O
- 8-position DIP switch
- 2 push-buttons
- 8 discrete LEDs
- 32 MB DDR SDRAM
- 4 MB Flash
- Xilinx Platform Flash
- RS-232 serial port
- National Semiconductor DP83847 10/100 Mbps Ethernet port
- 100 MHz oscillator
- 8-pin DIP clock socket
- 50-pin 0.1" header

ADS-XLX-V4FX-EVL12
\$249.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Memec Xilinx Virtex-4 FX12 LC Kit

- Xilinx XC4VFX12-10FF668 Virtex-4 FPGA
- 10/100/1000 Ethernet PHY
- 32M x 16 DDR memory
- 2M x 16 Flash memory
- 2 x 16 character LCD
- RS-232 serial port
- USB-UART port
- User LEDs and switches
- P160 standard interface
- System ACE interface
- CPU debug port
- 3.3V, 2.5V and 1.2V regulators

DS-KIT-4VFX12LC
\$395.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Xilinx Virtex-4 LX Evaluation Kit

- Xilinx XC4VLX25-FF668 or XC4VLX60-FF668 Virtex-4 FPGA
- 128 x 64 OSRAM graphical display
- AvBus connectivity including 30 LVDS pairs
- 8-position DIP switch
- 2 push-buttons
- 8 discrete LEDs
- 32 MB DDR SDRAM
- 8 MB Flash
- Xilinx Platform Flash
- RS-232 serial port
- National Semiconductor DP83847 10/100 Mbps Ethernet port
- Cypress CY7C68013 USB 2.0 controller
- Texas Instruments CDC5801 clock multiplier/divider

ADS-XLX-V4LX-EVL25
\$349.00 USD

ADS-XLX-V4LX-EVL60
\$599.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Xilinx Virtex-4 SX Evaluation Kit

- Xilinx XC4VSX35-FF668 Virtex-4 FPGA
- 128 x 64 OSRAM graphical display
- AvBus connectivity including 30 LVDS pairs
- 8-position DIP switch
- 2 push-buttons
- 8 discrete LEDs
- 32 MB DDR SDRAM
- 8 MB Flash
- Xilinx Platform Flash
- RS-232 serial port
- National Semiconductor DP83847 10/100 Mbps Ethernet port
- Cypress CY7C68013 USB 2.0 controller
- Texas Instruments CDC5801 clock multiplier/divider

ADS-XLX-V4SX-EVL35
\$449.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Memec Xilinx Virtex-4 LX LC Kit

- Xilinx XC4VLX25-10SF363 Virtex-4 FPGA
- 10/100 Ethernet PHY
- 32M x 16 DDR memory
- 2 x 16 character LCD
- User LEDs and switches
- P160 standard interface
- System ACE interface
- 3.3V, 2.5V and 1.2V regulators

DS-KIT-4VLX25LC
\$295.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit



Memec Xilinx Virtex-4 LX/SX MB Kit

- Xilinx XC4VLX25/LX60/SX35-10FF668 Virtex-4 FPGA
- 10/100 Ethernet PHY
- USB-to-UART bridge
- 32M x 16 DDR memory
- 2M x 16 Flash memory
- LVDS interface
- Clock synthesizer
- 2 x 16 character LCD
- User LEDs and switches
- P240 standard interface
- System ACE interface
- 3.3V, 2.5V and 1.2V regulators

DS-KIT-4VLX25MB
\$595.00 USD

DS-KIT-4VLX60MB
\$795.00 USD

DS-KIT-4VSX35MB
\$695.00 USD

ADS-EDK-BUNDLE
\$200.00 USD

ADS-FOUNDATION-BUNDLE
\$2,400.00 USD

-BUNDLE are only available for purchase with base kit

AvBus Expansion Modules



Audio/Video Module

- Philips SAA7113H video input processor
- Philips SAA7121H digital video encoder
- Philips UCB1400 stereo 20-bit audio CODEC
- Analog Devices ADV7123 140 MHz triple video DAC
- Interface for OmniVision OV6630AA CMOS color digital camera
- PS2 keyboard and mouse interfaces
- Interface for Fujitsu MB86S02A CMOS color digital camera
- Interface for Sharp LQ057Q3DC02 color TFT LCD module
- X/Y touchscreen controller
- AvBus expansion connector

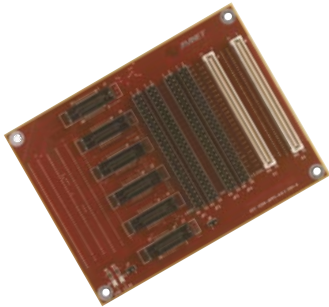
ADS-AV-DAU
\$300.00 USD Resale



Adapter Module

- Adapts male or female AvBus connectors to an interface cable
- Can also be utilized as a vertical height extension for other modules
- Adapter is unpopulated
- AMP 5-179010-6 and 179031-6 connectors sold separately

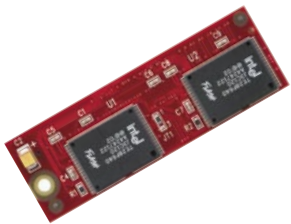
ADS-AVBUS-ADAPT
\$35.00 USD



Breakout Module

- Interfaces external signals to AvBus connectors
- Two male and two female AvBus connectors
- Six MICTOR logic pod interface connectors
- Four 50-pin 0.1" headers
- Power indicator LEDs for +5VDC and +3.3VDC

ADS-AVBUS-DAU
\$125.00 USD



FLASH Expansion Module

- Board I/O Connectors
- > 140-pin general purpose I/O expansion connectors (AvBus)
- Memory: Flash - 16 MB
- > Micron MT28F640J3 Q-Flash®
- > Intel TE28F640J3 StrataFlash®

ADS-FLASH-DAU
\$49.00 USD



SDRAM Expansion Module

- Board I/O Connectors
- > 140-pin general purpose I/O expansion connectors (AvBus)
- Memory: SDRAM - 64 MB
- > Micron MT48LC16M16 SDRAM

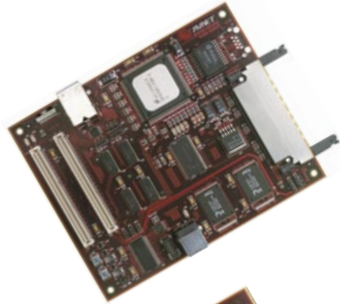
ADS-SDRAM-DAU
\$49.00 USD



SRAM Expansion Module

- Board I/O Connectors
- > 140-pin general purpose I/O expansion connectors (AvBus)
- Memory: Sync Burst SRAM - 1 MB
- > GSI Technologies GS88032BT-150

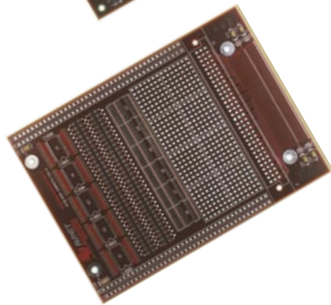
ADS-SRAM-DAU
\$49.00 USD



Communications/Memory Module

- 64 MB SDRAM
- 16 MB Flash
- 1 MB SRAM
- 10/100/1000 Mbps Ethernet port
- IrDA
- USB 2.0
- PC card

ADS-EMU-DAU
\$250.00 USD

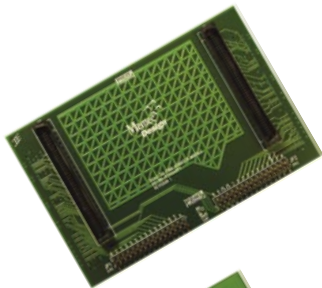


User Prototyping Module

- Provides user prototyping interfaced to a single AvBus connector
- Prototyping grid area (0.1")
- Various surface mount footprints
- Power rail decoupling capacitors

ADS-PROTO-DAU
\$95.00 USD

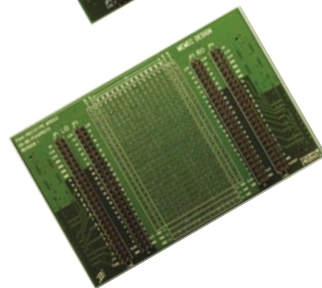
P240 Expansion Modules



P240 Adaptor Expansion Module

- Converts P160 module to P240 slot
- Supports single P160 module
- Two 2 x 15 .1" user headers (50 I/O)
- User LED

DS-KIT-P240-TO-P160
\$75.00 USD



P240 Prototype Expansion Module

- Four 2 x 25 .1" user headers
- Two user headers support LVDS
- Two user headers support single ended
- 160 User I/O available
- Prototype grid area with 5V, 3.3V, and 2.5V

DS-KIT-P240-PROTO
\$75.00 USD

P160 Expansion Modules



P160 Communications Module 2

- For Memec kits only
- 10/100/1000 Ethernet PHY
- USB to UART bridge
- RS-232 interface
- Real-Time Clock
- 1M x 32 Flash
- 256K x 32 SRAM (10 ns)
- P160 expansion interface

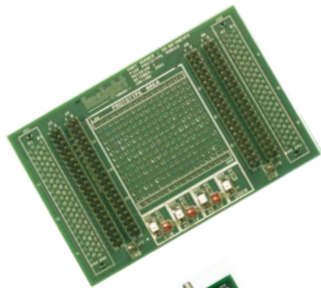
DS-KIT-P160-COMM2
\$175.00 USD



P160 Communications Module 3

- For Memec kits only
- 10/100 Ethernet MAC+PHY
- 8-Channel, 14-bit ADC
- 2-Channel, 12-bit DAC
- Simple VGA
- Real-time clock
- Bluetooth interface
- 1M x 32 Flash
- 256K x 32 SRAM (10 ns)
- P160 standard interface

DS-KIT-P160-COMM3
\$225.00 USD



P160 Prototype Module

- For Memec kits only
- Four 2 x 20 headers
- 110 user I/O access
- .1" spaced prototype area
- User programmable LED
- Power LED indicators
- P160 standard interface

DS-KIT-P160-PROTO1
\$60.00 USD



P160 Analog Module

- For Memec kits only
- Two 12-bit 53-Msps A/D converters
- AC coupled, single-ended, 1 Vp-p to 1.5 Vp-p analog input
- Low pass input filter with $f_c = 19.4$ MHz
- Two 12-bit 165 Msps D/A converters
- Single-ended, 2 Vp-p analog output
- AC coupled output optional
- DAC reference input
- Low pass output filter with $f_c = 28.4$ MHz
- Two user clock inputs
- P160 expansion interface

DS-KIT-P160-ANALOG1
\$275.00 USD



P160 iSFP Dual Optical Module

- For Memec kits only
- Two MSA compliant SFP interfaces
- Programmable LVDS clock source
- P160 Expansion interface
- Two iSFP 2.125 Gbps, multi-mode transceivers
 - > Infineon # V23848-M305-C56

DS-KIT-P160-ISFP-2
\$375.00 USD

System ACE™ Module



System ACE Module

- System ACE chip
- JTAG cable programming port
(Parallel III and IV connectors)
- JTAG configuration port

- Eight selectable configuration settings via switch
- CompactFlash card connector
- -PAK option includes 128 MB CompactFlash card and USB card reader

DS-KIT-SYSTEMACE
\$125.00 USD

DS-KIT-SYSTEMACE-PAK
\$200.00 USD

Mini-Module Kits



Memec Xilinx Spartan-3 Mini-Module

Module

- Small footprint (30 mm x 65.5 mm)
- Complete System-On-A-Module
- Supports MicroBlaze processor
- Based on the 400K gate Spartan-3 FPGA
- 10/100 Ethernet MAC and PHY
- SRAM and Flash memory
- 76 User I/O

Baseboard

- 2 x 16 character LCD
- USB-UART port
- Serial port
- User I/O header
- User clock socket
- Push and DIP switches

DS-KIT-3S400MM1-EDK
\$575.00 USD

DS-KIT-3S400MM1-BASE
\$375.00 USD

DS-KIT-3S400MM1
\$195.00 USD

DS-KIT-MM-BASE
\$195.00 USD



Memec Xilinx Virtex-4 FX12 Mini-Module

Module

- Small footprint (30 mm x 65.5 mm)
- Complete System-On-A-Module
- Supports PowerPC and MicroBlaze processors
- Based on the Virtex-4 FX12 FPGA
- 10/100/1000 Ethernet port
- DDR and Flash memory
- 76 User I/O

Baseboard

- 2 x 16 character LCD
- USB-UART port
- Serial port
- User I/O header
- User clock socket
- Push and DIP switches

DS-KIT-FX12MM1-EDK
\$695.00 USD

DS-KIT-FX12MM1-BASE
\$425.00 USD

DS-KIT-FX12MM1
\$250.00 USD

DS-KIT-MM-BASE
\$195.00 USD

MicroBlaze™ Kits (include EDK)



MicroBlaze Development Kits

- Single System Board (choice of)
 - > Xilinx Spartan-3 XC3S400 Evaluation Kit with Communications/Memory Module
 - > Xilinx Spartan-3 XC3S1500 Evaluation Kit with Communications/Memory Module
 - > Xilinx Spartan-3 XC3S2000 Development Kit
 - > Memec Spartan-3 LC XC3S400 Kit with P160 Comm2 and Proto
 - > Memec Spartan-3 MB XC3S1500 Kit, P160 Proto
 - > Memec Virtex-II MB XC2V1000 Kit with P160 Comm2 and Proto
- Xilinx Embedded Development Kit (EDK)
- AC-to-DC power supply adapter
- Complete Reference Designs with Source Code
- Bundled software options

ADS-SP3-MB-EVL400
\$799.00 USD

ADS-SP3-MB-EVL1500
\$899.00 USD

ADS-SP3-MB-DEV2000
\$849.00 USD

DS-KIT-MB-3SLC400
\$595.00 USD

DS-KIT-MB-3SMB1500
\$795.00 USD

DS-KIT-MBLAZE-V2
\$795.00 USD

AMCC	Part Number	Price USD
PowerPC 440GX Evaluation Kit	ADS-IBM-440-EVL	\$749.00
Freescale Semiconductor		
ColdFire MCF5282 Evaluation Kit	ADS-MOT-5282-EVL	\$250.00
ColdFire MCF5282 Evaluation Kit with P&E BDM interface	ADS-MOT-5282PE-EVL	\$300.00
PowerQUICC MPC857T Evaluation Kit	ADS-MOT-857-EVL	\$499.00
MPC885 Evaluation Kit	ADS-FRS-885-EVL	\$499.00
National Semiconductor		
Dual High-Current Power Supply Kit	ADS-NSC-XP	\$250.00
Texas Instruments		
Analog Adapter Kit	ADS-TI-AD-DAU	\$75.00
DSK to USB 2.0 Daughtercard	ADS-TI-USB-DAU	\$99.00
Xilinx		
Spartan-II		
Spartan-II XC2S150 Evaluation Kit	ADS-XLX-SP2-EVL	\$115.00
Memec Spartan-II LC XC2S100 Kit	DS-KIT-2SLC100	\$150.00
Memec Spartan-II XC2S200 PCI Kit	DS-KIT-2S200	\$250.00
Spartan-II-E		
Spartan-II-E XC2S200E Evaluation Kit	ADS-XLX-SP2E-EVL	\$179.00
Memec Spartan-II-E LC XC2S300E Kit	DS-KIT-S2E3LC	\$225.00
Spartan-3		
Spartan-3 XC3S400 Evaluation Kit	ADS-XLX-SP3-EVL400	\$399.00
Spartan-3 XC3S1000L Evaluation Kit	ADS-XLX-SP3-EVL1000L	\$599.00
Spartan-3 XC3S1500 Evaluation Kit	ADS-XLX-SP3-EVL1500	\$499.00
Spartan-3 XC3S1500 Development Kit	ADS-XLX-SP3-DEV1500	\$749.00
Spartan-3 XC3S2000 Development Kit	ADS-XLX-SP3-DEV2000	\$799.00
Memec Spartan-3 LC XC3S400 Kit	DS-KIT-3SLC400	\$125.00
Memec Spartan-3 MB XC3S1500 Kit	DS-KIT-3SMB1500	\$595.00
Spartan-3E		
Spartan-3E XC3S100E Evaluation Kit	ADS-XLX-SP3E-EVL100	\$69.00
Virtex-II		
Virtex-II XC2V1000 FG256 Evaluation Kit	ADS-XLX-V2-EVL1000	\$279.00
Memec Virtex-II MB XC2V1000 FG456 Kit	DS-KIT-V2MB1000	\$595.00
Virtex-II Pro		
Virtex-II Pro XC2VP7 FF896 Evaluation Kit	ADS-XLX-V2PRO-EVLP7-6	\$499.00
Virtex-II Pro XC2VP7 FF896 Development Kit	ADS-XLX-V2PRO-DEVP7-6	\$2,495.00
Virtex-II Pro XC2VP20 FF896 Development Kit	ADS-XLX-V2PRO-DEVP20-6	\$3,195.00
Virtex-II Pro XC2VP30 FF896 Development Kit	ADS-XLX-V2PRO-DEVP30-6	\$3,695.00
Memec Virtex-II Pro LC XC2VP4 Kit	DS-KIT-2VP4LC-NE	\$295.00
Memec Virtex-II Pro XC2VP7 FG456 Kit	DS-KIT-2VP7FG456-NE	\$995.00
Memec Virtex-II Pro XC2VP4 FF672 Kit	DS-KIT-2VP4FF672-NE	\$695.00
Memec Virtex-II Pro XC2VP7 FF672 Kit	DS-KIT-2VP7FF672-NE	\$1,095.00
Memec Virtex-II Pro XC2VP20 FF1152 Kit	DS-KIT-2VP20FF1152-NE	\$1,595.00
Memec Virtex-II Pro XC2VP30 FF1152 Kit	DS-KIT-2VP30FF1152-NE	\$2,195.00
Memec Virtex-II Pro XC2VP50 FF1152 Kit	DS-KIT-2VP50FF1152-NE	\$3,195.00
Virtex-4		
Virtex-4 LX XC4VLX25-FF668 Evaluation Kit	ADS-XLX-V4LX-EVL25	\$349.00
Virtex-4 LX XC4VLX60-FF668 Evaluation Kit	ADS-XLX-V4LX-EVL60	\$599.00
Virtex-4 SX XC4VXS35-FF668 Evaluation Kit	ADS-XLX-V4SX-EVL35	\$449.00
Virtex-4 FX XC4VFX12-FF668 Evaluation Kit	ADS-XLX-V4FX-EVL12	\$249.00
Memec Virtex-4 LX/LC XC4VLX25-10SF363 Kit	DS-KIT-4VLX25LC	\$295.00
Memec Virtex-4 FX/LC XC4VFX12-10FF668 Kit	DS-KIT-4VFX12LC	\$395.00
Memec Virtex-4 LX/MB XC4VLX25-10FF668 Kit	DS-KIT-4VLX25MB	\$595.00
Memec Virtex-4 LX/MB XC4VLX60-10FF668 Kit	DS-KIT-4VLX60MB	\$795.00
Memec Virtex-4 SX/MB XC4VXS35-10FF668 Kit	DS-KIT-4VXS35MB	\$695.00

AvBus Expansion Modules	Part Number	Price USD
Audio/Video Module	ADS-AV-DAU	\$300.00
Adapter Module	ADS-AVBUS-ADAPT	\$35.00
Breakout Module	ADS-AVBUS-DAU	\$125.00
FLASH Expansion Module	ADS-FLASH-DAU	\$49.00
SDRAM Expansion Module	ADS-SDRAM-DAU	\$49.00
SRAM Expansion Module	ADS-SRAM-DAU	\$49.00
Communications/Memory Module	ADS-EMU-DAU	\$250.00
User Prototyping Module	ADS-PROTO-DAU	\$95.00
P160 Expansion Modules (for Memec kits only)		
P160 Communications Module 2 with 10/100/1000 PHY	DS-KIT-P160-COMM2	\$175.00
P160 Communications Module 3 with 10/100 MAC+PHY	DS-KIT-P160-COMM3	\$225.00
P160 Prototype Module with I/O Headers	DS-KIT-P160-PROTO1	\$60.00
P160 Analog Module	DS-KIT-P160-ANALOG1	\$275.00
P160 iSFP Module with One GbE Fiber Transceiver and 6 MGT Cables	DS-KIT-P160-iSFP-2	\$375.00
P240 Expansion Modules (for Memec Virtex-4 MB kits only)		
P240-to-P160 Adapter Module	DS-KIT-P240-TO-P160	\$75.00
P240 Prototype Module with I/O Headers	DS-KIT-P240-PROTO	\$75.00
MicroBlaze Kits (includes EDK)		
Spartan-3 XC3S400 Evaluation Kit, Communications/Memory Module	ADS-SP3-MB-EVL400	\$799.00
Spartan-3 XC3S1500 Evaluation Kit, Communications/Memory Module	ADS-SP3-MB-EVL1500	\$899.00
Spartan-3 XC3S2000 Development Kit	ADS-SP3-MB-DEV2000	\$849.00
Memec Spartan-3 LC XC3S400 Kit, P160 Comm2 and Proto	DS-KIT-MB-3SLC400	\$595.00
Memec Spartan-3 MB XC3S1500 Kit, P160 Proto	DS-KIT-MB-3SMB1500	\$795.00
Memec Virtex-II MB XC2V1000 Kit, P160 Comm2 and Proto	DS-KIT-MBLAZE-V2	\$795.00
PICMG ATCA Design Kit		
XC2VP50 PICMG ATCA Design Kit	ADS-XLX-ATCA-DEVP50	\$4,999.00
Linux Starter Kit		
Virtex-4 FX12 Linux Getting Started Guide and CD (for use with Memec FX12 board)	DS-KIT-CD-LINUX-1	\$200.00
Mini-Module Kits		
Spartan-3 3S400 Mini-Module, Baseboard, Power Supply, Xilinx EDK, Serial Cable	DS-KIT-3S400MM1-EDK	\$575.00
Spartan-3 3S400 Mini-Module, Baseboard, Power Supply	DS-KIT-3S400MM1-BASE	\$375.00
Spartan-3 3S400 Mini-Module (Call for volume pricing)	DS-KIT-3S400MM1	\$195.00
Virtex-4 FX12 Mini-Module, Baseboard, Power Supply, Xilinx EDK, Serial Cable	DS-KIT-FX12MM1-EDK	\$695.00
Virtex-4 FX12 Mini-Module, Baseboard, Power Supply	DS-KIT-FX12MM1-BASE	\$425.00
Virtex-4 FX12 Mini-Module (Call for volume pricing)	DS-KIT-FX12MM1	\$250.00
Mini-Module Baseboard and Power Supply	DS-KIT-MM-BASE	\$195.00
System ACE Module		
System ACE Programming Module	DS-KIT-SYSTEMACE	\$125.00
System ACE Programming Module, 128MB CF Card, CF Reader, JTAG Flylead Set	DS-KIT-SYSTEMACE-PAK	\$200.00
Software Options & Accessories		
ISE Foundation (only available with a Spartan or Virtex kits)	ADS-FOUNDATION-BUNDLE	\$2,400.00
EDK (only available with Virtex-II Pro and Virtex-4 Series kits)	ADS-EDK-BUNDLE	\$200.00
Avnet Parallel Cable III with Flyleads	HW-JTAG-PC	\$75.00
Memec Low Cost Parallel JTAG Cable With Flyleads	DS-KIT-CABLE-JTAG	\$25.00
Flylead Set For Low Cost Memec JTAG and System ACE Module	DS-KIT-FLYLEAD-4	\$10.00

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