



Embedded Processing Development Kit Spartan-3A DSP S3D1800A MicroBlaze Edition



The Challenges in Creating New, Real-Time, Embedded Systems

- Building sophisticated embedded systems from scratch is both time-consuming and inefficient
- Creating and validating system components from different sources is often difficult
- Debugging brand new hardware, software, and IP simultaneously is always complex

Accelerate Your Embedded Designs With Integrated Hardware/Software/IP Development Environments

- Intelligent tools, IP and reference designs streamline development
- Build fast and flexible embedded processing systems on high performance and customizable hardware platforms

Build Fast and Flexible Embedded Processing Systems

Programmable platforms and innovative tools allow you to craft an embedded design with the perfect combination of feature set, performance, area and cost. Instantiate a flexible soft processor core, customize your IP, optimize the performance, and validate your software on a development board before you even have your custom hardware back from the shop!

Programmable Platform FPGAs are Versatile SOCs

Programmable, reprogrammable, and field-upgradeable platforms mean that your product gets to market quicker and has a longer life. System features immersed in the chip allow you to build a wide variety of applications with off-the-shelf devices.

Flexibility and Performance Optimization

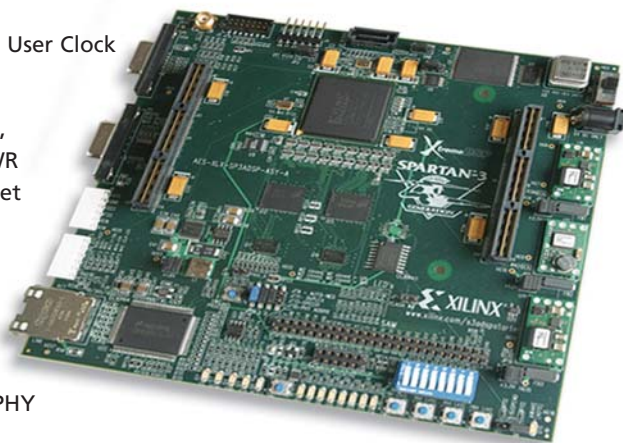
Create the system you require from customizable elements to best fit your application. Utilize the innovative FSL (Fast Simplex Links) to directly connect your processor core to the high-performance FPGA hardware and boost the performance of individual modules by 40X or more. Intelligent tools and reference designs help accelerate development even further.

The MicroBlaze Development Kit, Spartan-3A DSP S3D1800A Edition includes the following:

- Spartan-3A DSP 1800A Development Board
- Platform Studio embedded and ISE Webpack FPGA tool suites
- Pre-Verified Reference Designs, JTAG Probe, Power Supply, Serial and Ethernet Cables.

Spartan-3A DSP 1800A Development Board Features:

- Xilinx Device – XCS3D1800A
- Memory – 128Mb DDR2 SDRAM (32Mb x 32), 16Mb Linear FLASH (16Mb x 8), 64Mb SPI Serial FLASH
- Clocks – 125 MHz Crystal, Socket for User Clock
- Display – Video RGB Port
- Connectors – EXP 168 Pin Expansion, 2 Digilent 6 pin ports (4 I/O with PWR and GND), 30 I/O port (used for Avnet SystemACE Card or optional I/O)
- Interfaces – 4 Buttons, 8 LEDs, 8 DIP Switches, RS232 Serial Port, Data Terminal Equipment (DCE) 9-pin port, Eridon Debug Port
- Peripherals – 10/100/1000 Ethernet PHY



Development Tools and IP:

- Embedded Development Kit (EDK) and Platform Studio tool suite
- Graphical tools for developing/debugging embedded platforms
- GNU compiler, debugger and utilities
- Platform Studio SDK – Software Development Kit, Eclipse-based IDE for powerful embedded software development and debug
- MicroBlaze soft processor license – Royalty Free
- IP library of processor peripheral cores and other evaluation cores
- XMD – Xilinx Microprocessor Debug engine for run time target control

ISE™ WebPack FPGA Design Tool Suite

- Timing driven FPGA hardware implementation tools
- Design entry, synthesis and verification capabilities
- Data2MEM – application for loading on-chip memory

Ordering Info: Part Number: DO-SD1800A-EDK-DK-UNI-G

TAKE THE NEXT STEP

For more information on all Xilinx Embedded Processing Solutions, please visit: www.xilinx.com/processor

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