



## Spartan 3E-1600 Development Board



<b>IC:</b>	XC3S1600E Spartan 3E FPGA
<b>Connector(s):</b>	<ul style="list-style-type: none"> <li>100-pin Hirose FX2 connector</li> <li>Three 6-pin Pmod connectors</li> <li>DB15HD VGA</li> <li>PS/2 keyboard</li> <li>Two DB9 RS-232 connectors</li> <li>RJ-45 Ethernet</li> <li>16-pin header for optional LCD modules</li> <li>SMA connector for high-speed clock input</li> </ul>
<b>Programming:</b>	JTAG programming via on-board USB2 port, external parallel or USB cables. The FPGA supports numerous configuration options including on-board platform flash, SPI flash, and parallel flash.

- Xilinx XC3S1600E FPGA
- Xilinx XCF04 Platform Flash for storing FPGA configurations
- ST Microelectronics M25P16 16Mbit Serial Flash
- Intel TE28F128 (or JS28F128) 128Mbit StartaFlash
- Linear Technologies Power Supplies
- Texas Instruments TPS75003 Triple-Supply Power Management IC
- SMSC LAN83C185 Ethernet PHY
- Micron 256Mbit DDR SDRAM

The board features JTAG programming via on-board USB2 port, external parallel or USB cables. The FPGA supports configuration via the on-board Xilinx platform flash, Intel StrataFlash, ST Microelectronics Serial Flash and numerous additional options.

It is fully compatible with all versions of the Xilinx ISE tools including the free WebPack. The board ships with a power supply and USB cable for programming so designs can be implemented immediately with no hidden costs.

The Spartan 3E-1600 Development Board provides a powerful and highly advanced self-contained development platform for designs targeting the Spartan 3E FPGA from Xilinx. It features a 1600K gate Spartan 3E capable of implementing large complex digital systems including the 32-bit MicroBlaze RISC soft processor with DDR interfaces.

The Spartan 3E-1600 Development Board is also compatible with the Xilinx Embedded Development Kit (EDK) featuring the 32-bit MicroBlaze RISC processor. The PicoBlaze soft processor core is also supported via ISE.



## FX2 Breadboard



**Connector(s):** 100-pin Hirose FX2 socket connector and numerous useful header connectors

- Four 6-pin male header connectors for connection to Digilent Pmods or system boards
- Four 6-pin female header connectors for connection to Digilent Pmods
- FX2 socket connector for connection to Digilent system boards
- Two power and one ground bus around
- Prototype connections on every signal
- Ships with two 640 tie point breadboards separated by a 100 tie point bus strip

The Digilent FX2 Breadboard (FX2BB) offers a ready-made solution for prototyping breadboarded circuits as accessories to Digilent system boards. The FX2BB provides connectors suitable for direct connection of various Digilent system boards as well as Digilent Pmod™ peripheral modules.

The FX2BB kit includes an FX2WW wirewrap board plus solderless breadboards with adhesive backings.

