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VIRTEX®-5 POWER, MADE ACCESSIBLE.

Diligent's Genesys board brings the power of Xilinx's Virtex-5 FPGA to a surprisingly inexpensive and uncomplicated design platform. With gigabit ethernet, high-speed memory, high-resolution audio & video circuits and a host of USB connectivity options, the Genesys board includes proven circuits used in the most demanding designs. From complex systems to dedicated high performance applications, the Genesys board brings workable solutions to complex problems.

- Xilinx Virtex®-5 LX50T FPGA in a 1156-pin BGA package
- 256Mbyte DDR2 SODIMM with 64-bit wide data
- 10/100/1000 Ethernet PHY and RS-232 serial port
- Multiple USB2 ports for programming, data transfer, and hosting applications
- HDMI video with resolution up to 1600x1200 & 24-bit color
- AC-97 Codec with 48KHz sampling and line-in, line-out, microphone and headphone ports
- Real time power monitors on all power rails
- 32Mbyte Numonyx® StrataFlash for configuration and user-data storage
- 100MHz fixed oscillator and (up to) 400MHz programmable clock generator
- 112 FPGA I/O's routed to expansion connectors (two high-speed parallel VHDC connectors and four 8-pin headers)
- GPIO includes 8 LEDs, 2 buttons, two-axis navigation switch, 8 slide switches, and a 16x2 character LCD
- Ships with a 20W power supply and USB cable

