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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Cyclone V GX Video Development System

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The Cyclone V GX Video Development System is an ideal video processing platform for high-performance, cost-effective video applications. With PCIe x4 lanes and high-speed 3.125 Gbps transceiver capabilities, the Cyclone V GX kit allows for a myriad of functionalities such as prototyping, power measurement, and high-speed communication. Memory interfaces include flash memory, SRAM, and DDR3, creating a complete integrated memory interface solution for memory-intensive applications.

The DVI-HSMC daughter card part of the bundled package will allow developers to access high quality and high resolution video signals that can support resolution up to 1600x1200. A complete DVI video controller design with source code is provided.

Terasic recognized for its strong design expertise in high-end video, imaging and multimedia products have made available a video development package that targets video processing development. The platform can also allow users to experience advanced image processing designs incorporating VIP (Altera's Video and Image Processing Suite MegaCore Functions).







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Altera Cyclone V GX FPGA Development Board

Featured devices

- Cyclone V GX FPGA 5CGXFC7D6F31C7NES
- MAX [®]V CPLD 5M2210ZF256C4N (system controller)
- MAX II CPLD EPM240M100C4N (embedded USB-Blaster[™] II)
- MAX II CPLD- EPM240M100C4N (optional, third party security CPLD feature)

Configuration

- Embedded USB-Blaster II (JTAG)
- Fast Passive Parallel (PFL)
- Push buttons, DIP switches and LEDs

Memory devices

- Two banks x40 bit DDR3 SDRAM with error correction code (ECC)
- 512Mb flash memory and 18MB SRAM

Standard communication ports

- USB 2.0
- · Gigabit Ethernet
- PCIe x4 Edge Connector
- Universal high-speed mezzanine card (HSMC) (x 4 Xvcrs, x16 Tx LDVS, x16 Rx LVDS)
- · One serial digital interface (SDI) channel
- Two SMAs for one transceiver channel

Clocking

- Programmable clock generator for FPGA reference clock input
- · 125 MHz LVDS oscillator for FPGA reference clock input
- 148.5/148.35 MHz LVDS VCXO for FPGA reference clock input
- + 50 MHz single-ended oscillator for FPGA and MAX V FPGA clock input
- 100-MHz single-ended oscillator for MAX V FPGA configuration clock input
- SMA input (LVPECL)

Power

- Laptop DC Input 14 20V adapter
- PCIe Edge Connector

System Monitoring Circuit

• Power (Voltage, Current, Wattage)

Mechanical

• PCIe card standard size (6.600" x 4.199")





Terasic DVI-HSMC Card

Digital Transmitter

- One DVI transmitter with single transmitting port
- Digital Visual Interface (DVI) Compliant
- Supports resolutions from VGA to UXGA (25 MHz 165 MHz Pixel Rates)
- Universal Graphics Controller Interface
 - 12-Bit, Dual-Edge and 24-Bit, Single-Edge Input Modes
 - · Adjustable 1.1 V to 1.8 V and Standard 3.3 V CMOS Input Signal Levels
 - · Fully Differential and Single-Ended Input Clocking Modes
 - ∘ Standard Intel 12-Bit Digital Video Port Compatible as on Intel™ 81x Chipsets
- Enhanced PLL Noise Immunity
 - On-Chip Regulators and Bypass Capacitors for Reducing System Costs
- Enhanced Jitter Performance
 - No HSYNC Jitter Anomaly
 - Negligible Data-Dependent Jitter
 - Programmable Using I²C Serial Interface
 - Single 3.3-V Supply Operation

Digital Receiver

- One DVI receiver with single receiving port
- Supports UXGA Resolution (Output Pixel Rates Up to 165 MHz)
- Digital Visual Interface (DVI) Specification Compliant
- True-Color, 24 Bit/Pixel, 16.7M Colors at 1 or 2-Pixels Per Clock
- · Laser Trimmed Internal termination Resistors for Optimum Fixed Impedance Matching
- · 4x Over-Sampling
- Reduced Ground Bounce Using Time Staggered Pixel Outputs
- Lowest Noise and Best Power Dissipation Using TI PowerPAD™ Packaging



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