DE2i-150 FPGA Development Kit
(P0126)
DE2i-150 Kit Contents

- Development Board
- System CD
- Quartus II CD
- Quick Start Guide
- USB Cable
- Power Cable
- IR Remote
- Loopback Board
Included Kit Accessories

- 64GB mSATA SSD
- 802.11a/g/n Wi-Fi Module
- DDR3 Memory
DE2i-150 Floorplan

- Intel Atom N2600
- 4 USB Host Ports
- VGA Out
- RS-232 Port
- USB Blaster
- Intel Chipset NM10
- Gigabit Ethernet
- Video In
- 2MB SDRAM x 2
- 64MB SDRAM x 2
- Programming Mode Switch
- USB Blaster Controller Chipset
- HSMC Connector
- Expansion Header (with Protection Diodes)
- Altera Cyclone IV FPGA GX
- 4KB I2C EEPROM
- +12V Fan Connector
- LCD 16x2 Module
- IR Receiver
- SMA Ext. Clock Out
- SMA Ext. Clock In
- SD-Card Slot
- WiFi Antenna
- Mic In
- Line In
- Line Out
- BIOS and Ethernet Configuration Header
- Bios Flash
- DDR3 SODIMM Slot
- SATA Port
- SATA Power Port
- 12V DC Power Supply Connector
- Reset Button
- Power ON/OFF Button
- 18 Slide Switches
- 8 Green LEDs
- 64MB FLASH
- 18 Red LEDs
- 7-Segment Displays
- 4 Push-buttons
DE2i-150 Floorplan
DE2i-150 Back
DE2i-150 Angle 2
DE2i-150 Side
DE2i-150 Rear
DE2i-150 Measurements

Weight : 470 g
Weight with Acrylic : 820 g
DE2i-150 Measurements (2)
Kit Partners
Cyclone 4 GX-based Features

- VGA Display, TV Decoder (Composite Input)
- Gigabit Ethernet
- SD Card Socket
- IR Receiver, RS232
- Accelerometer
- HSMC & GPIO Expansion Connector
- EEPROM, Flash, SSRAM, SDRAM, and EPCS64 (for FPGA Configure)
- Two PCIe x1 (Connected to Intel Atom)
- On board Oscillator and SMAx2 for External Clock Input & Output
- LED, 2x16 LCD, Button, Switch & 7-Segment
- On-board USB Blaster
Intel Atom-based Features

- Audio Input & Output
- HDMI 1.3a
- VGA
- PCIe Mini Card (Half-Size)
- mSATA Card (Full-Size)
- USB 2.0 Host x4
- 10/100/1000 M Ethernet
- SATA Gen2
- DDR3 SO-DIMM Socket
Cyclone IV Links

Cyclone IV Device Handbook:

Cyclone IV Datasheet:
Teaching Material

Altera University Program FPGA Training:

Altera University Program Lab Exercises:
Teaching Material (2)

Fundamentals of Digital Logic with VHDL Design
by Stephen Brown and Zvonko Vranesic
http://www.amazon.com/dp/0077221435/

Digital Systems: Principles and Applications, 10/E
by Ronald Tocci, Neal Widmer and Gregory Moss
http://www.amazon.com/dp/0131725793/

Rapid Prototyping of Digital Systems
by James O. Hamblen and Michael D. Furman
http://www.amazon.com/dp/0792386043/
Daughter Card Solutions

Daughter Cards are available for purchase at: http://cards.terasic.com
Daughter Card Solutions (2)

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http://cards.terasic.com