DE2i-150 FPGA Development Kit (P0126)

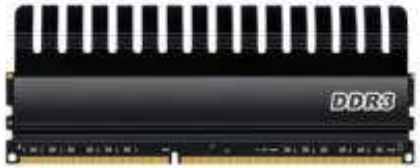
DE2i-150 Kit Contents

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

Included Kit Accessories

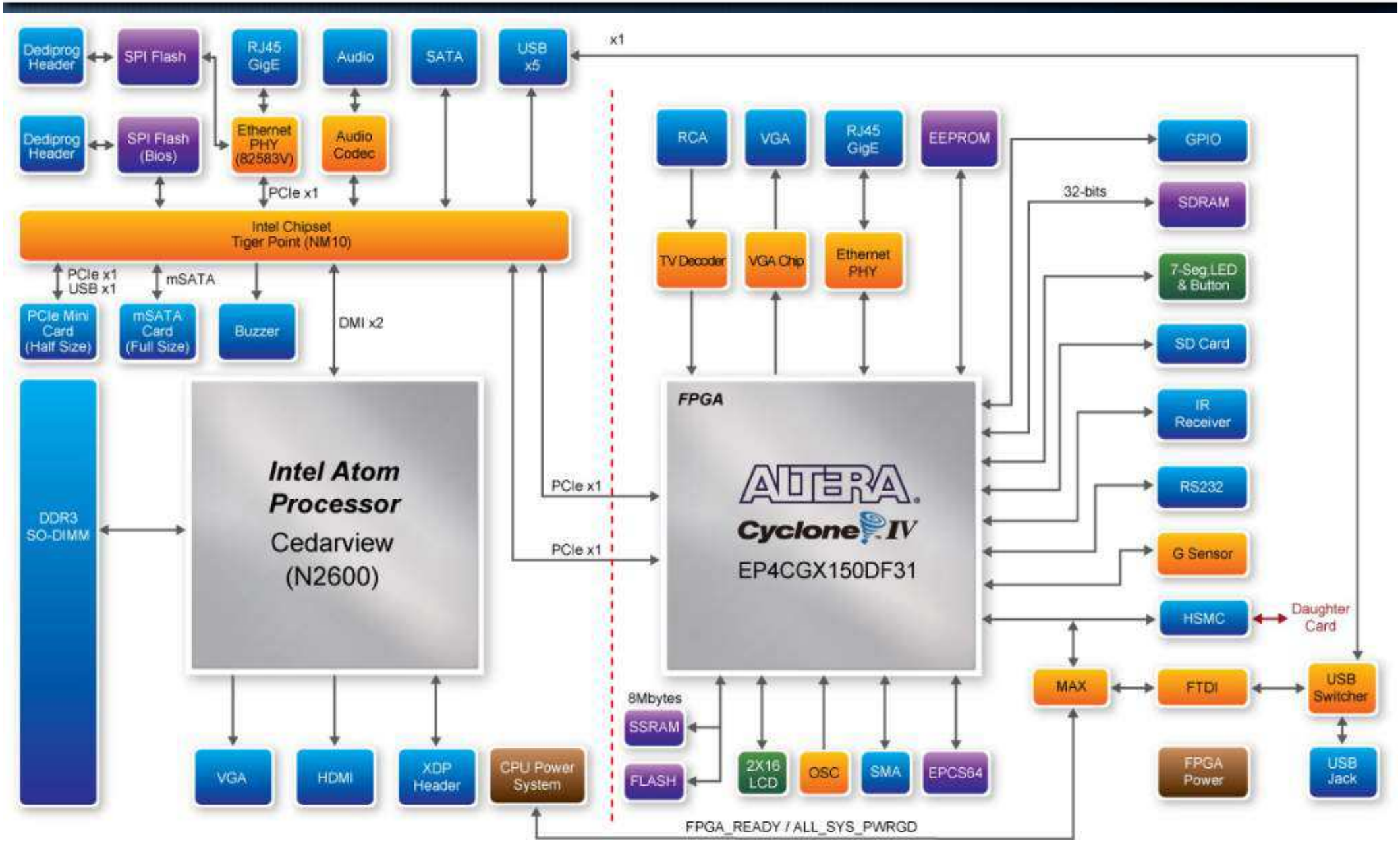
64GB mSATA SSD

802.11a/g/n Wi-Fi Module

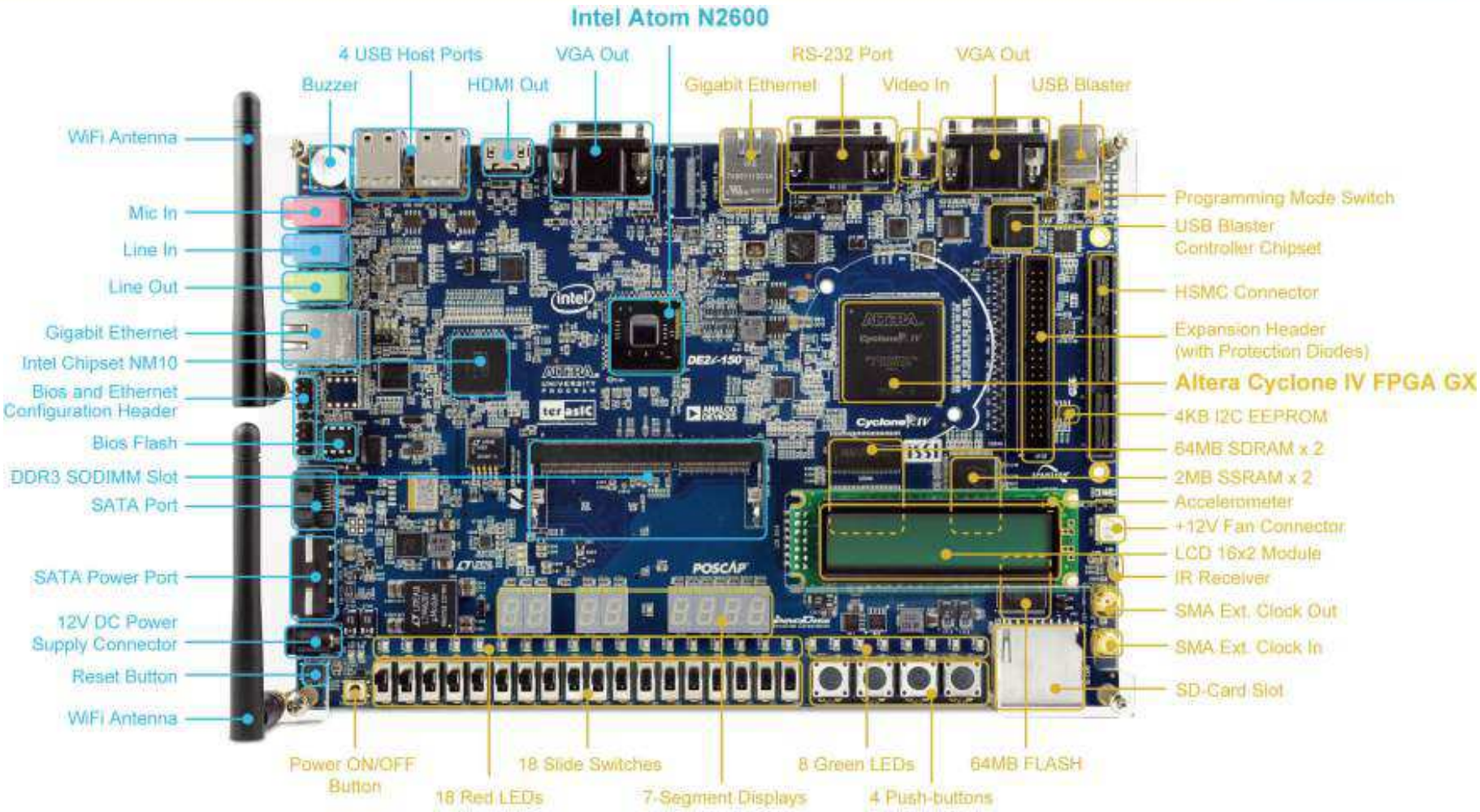


DDR3 Memory

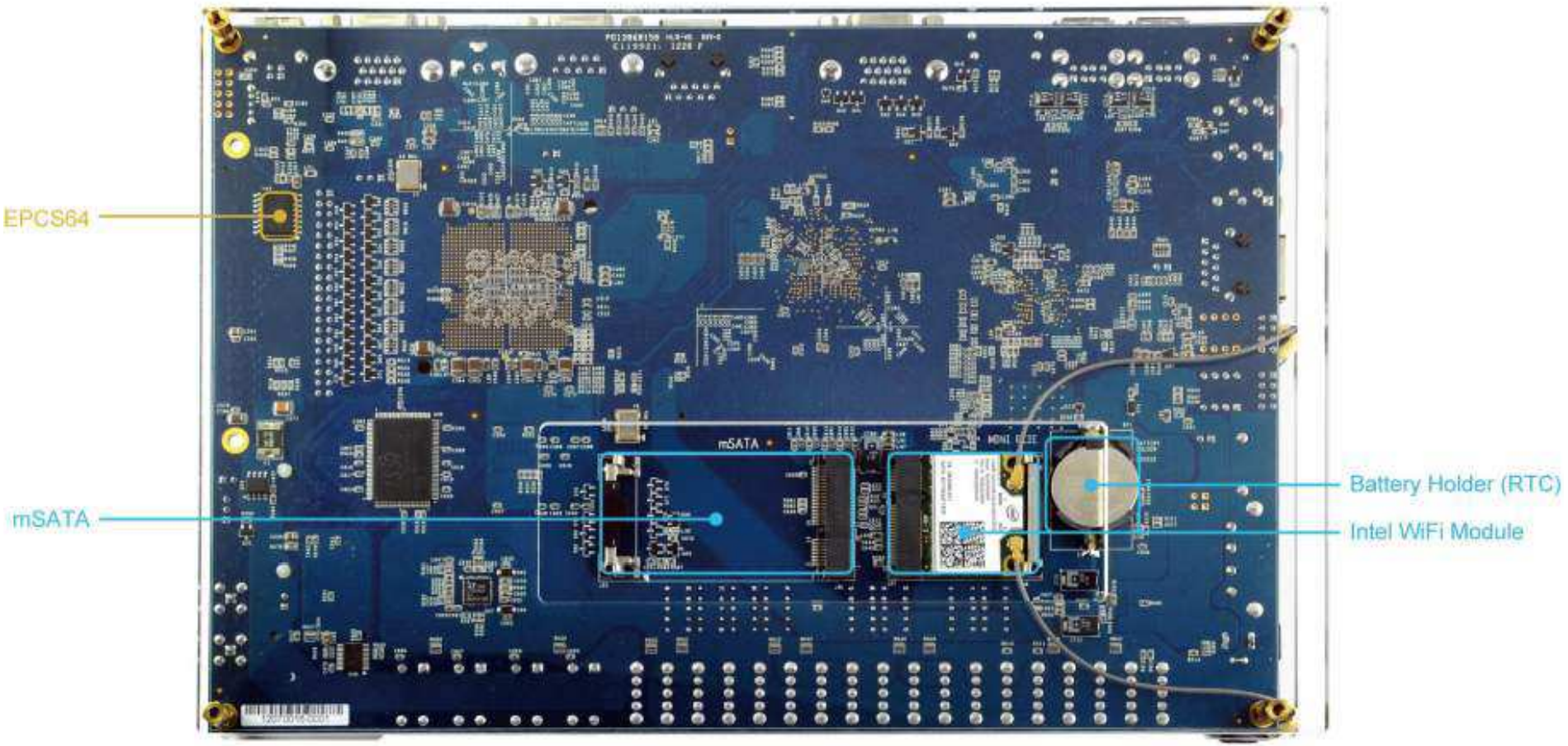
DE2i-150 Block Diagram



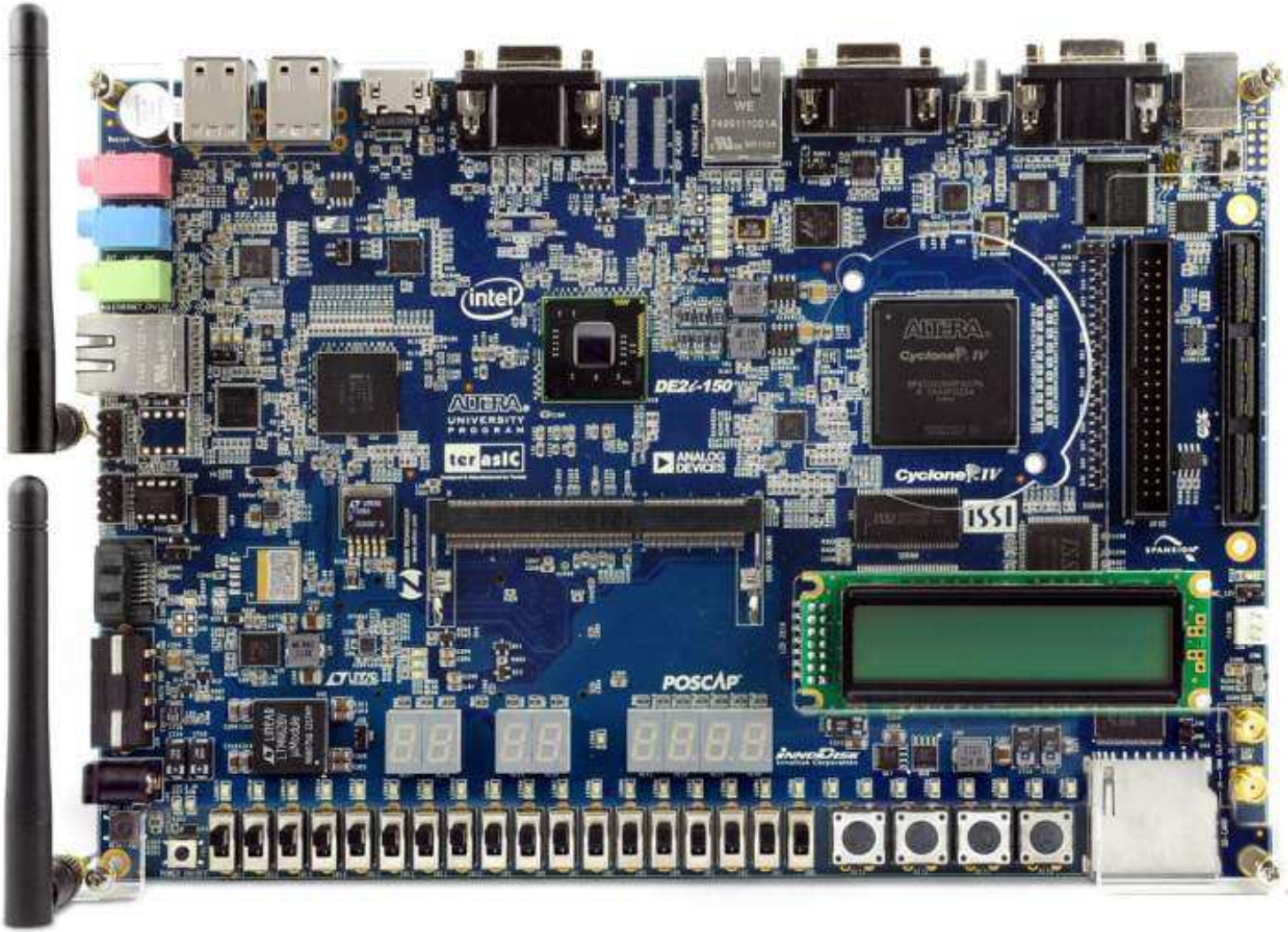
DE2i-150 Floorplan



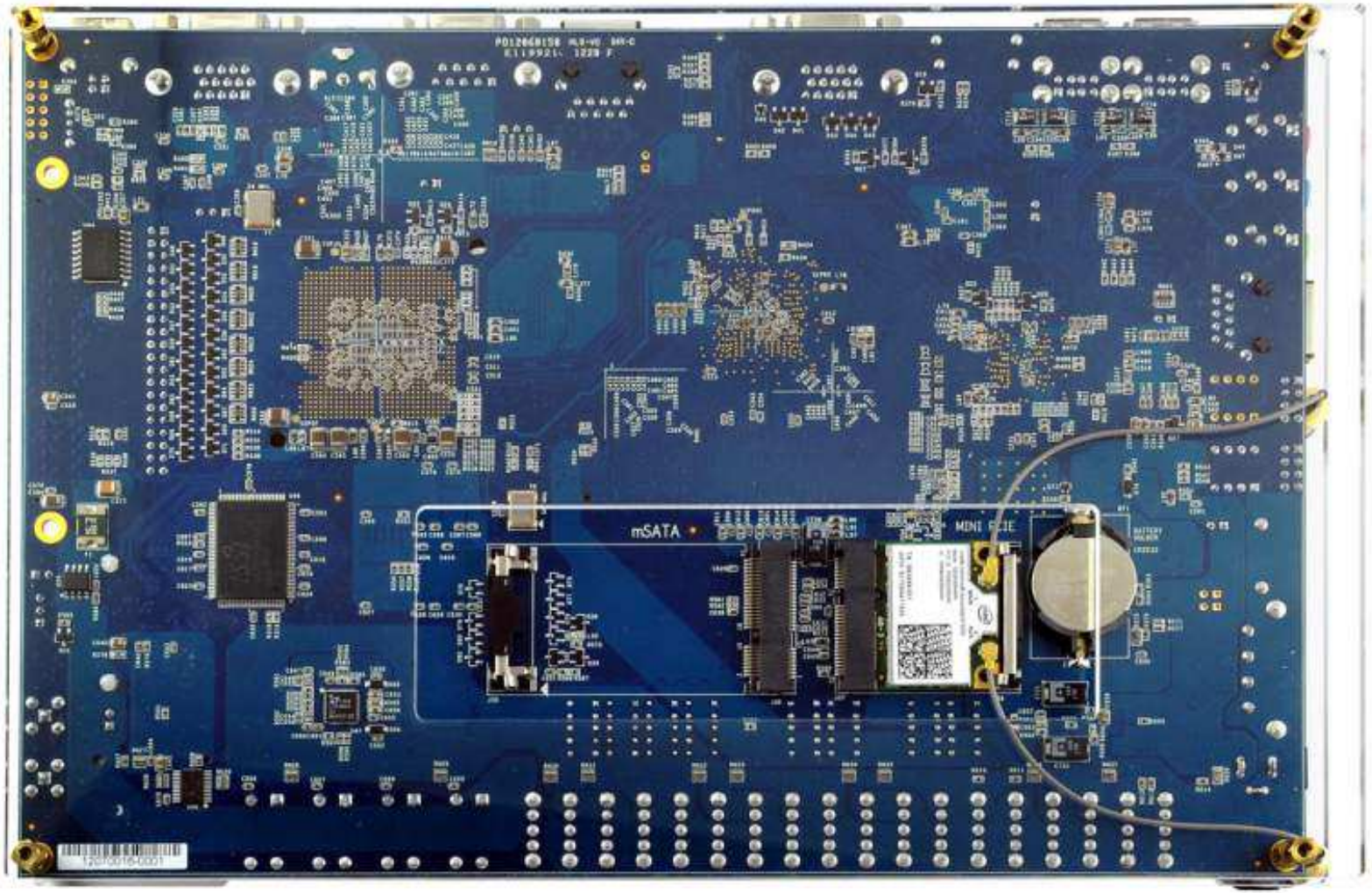
DE2i-150 Floorplan



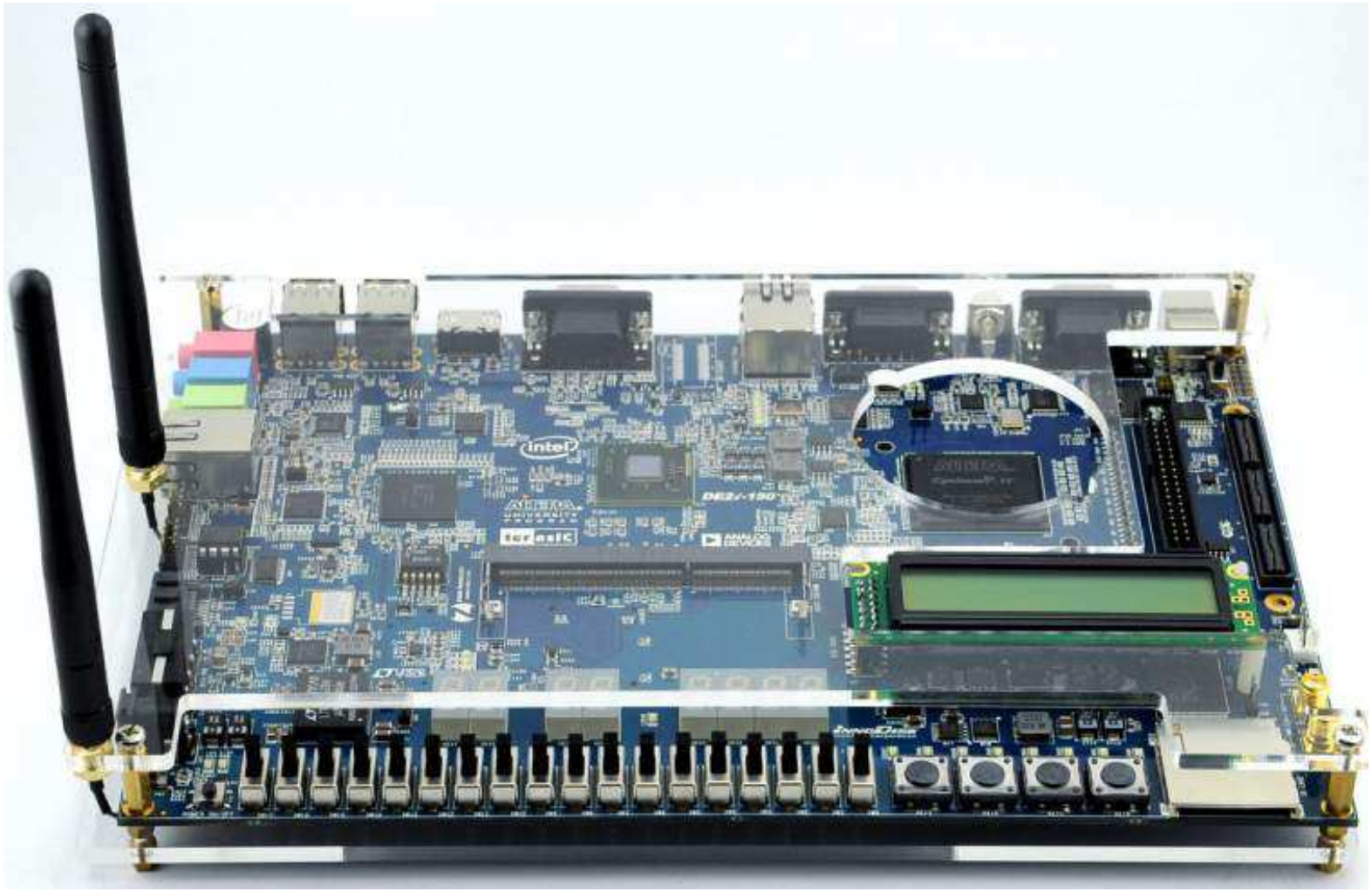
DE2i-150 Front



DE2i-150 Back



DE2i-150 Angle 1

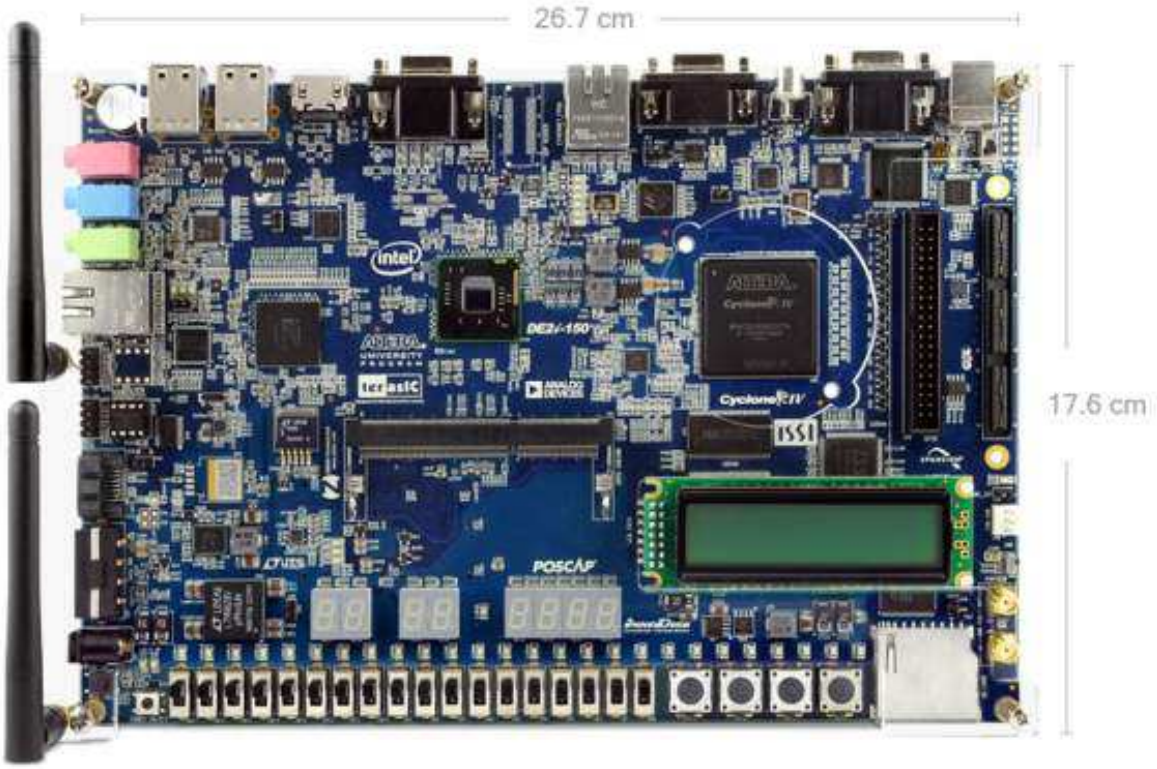


DE2i-150 Angle 2

DE2i-150 Side

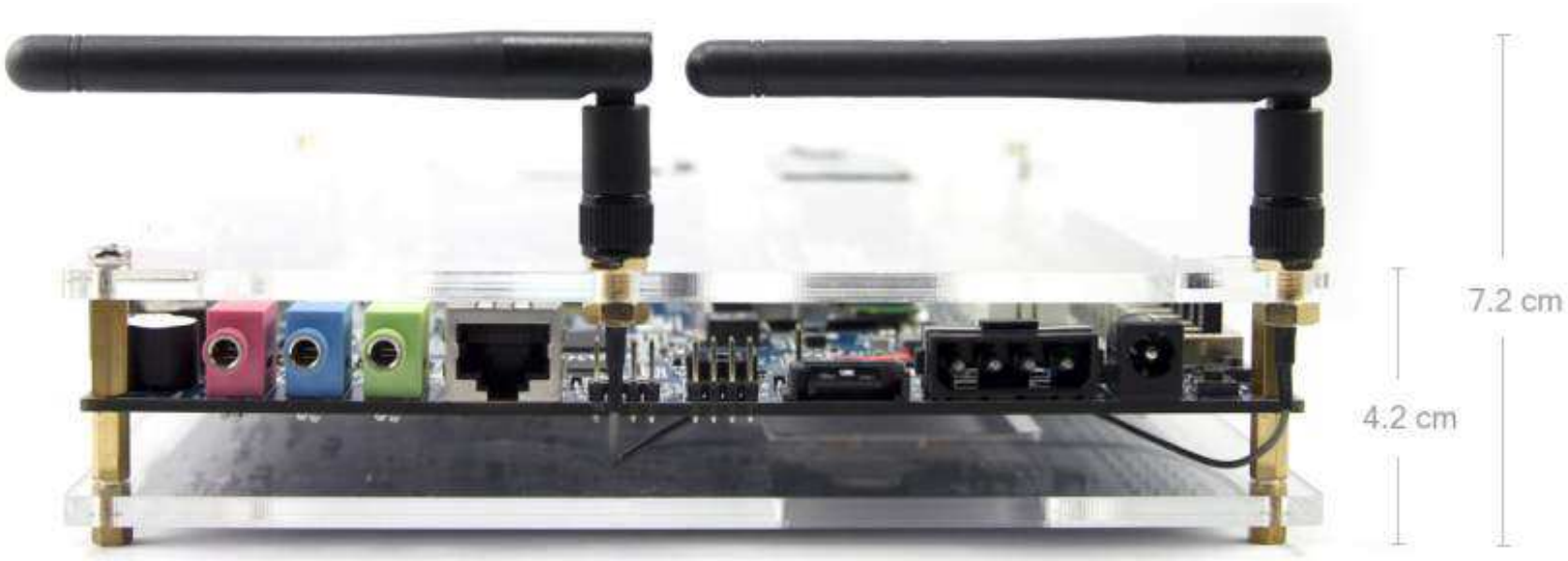
DE2i-150 Rear

DE2i-150 Measurements



Weight : 470 g
Weight with Acrylic : 820 g

DE2i-150 Measurements (2)



Kit Partners

ZEBOR TECHNOLOGY

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:

http://www.altera.com/literature/hb/cyclone-iv/cyclone4-handbook.pdf

Cyclone IV Datasheet:

http://www.altera.com/literature/hb/cyclone-iv/cyiv-51001.pdf

Teaching Material

Altera University Program FPGA Training:

http://www.altera.com/education/univ/materials/digital_logic/tutorials/unv-tutorials.html

Altera University Program Lab Exercises:

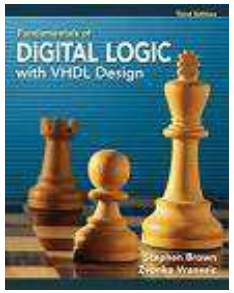
http://www.altera.com/education/univ/materials/digital_logic/labs/unv-labs.html

Teaching Material (2)

Fundamentals of Digital Logic with VHDL/Verilog Design

by Dr. Stephen Brown and Dr. 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

Capacitive Touch Screen

CameraLink Adapter

5 Megapixel Camera

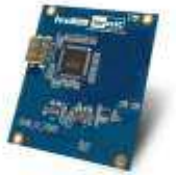
HDMI Input

DVI Input/Output

Ethernet

Serial Digital Interface

Altera Industrial Communications



HDMI Output

Aptina Adapter

Daughter Cards are available for purchase at:

http://cards.terasic.com

Daughter Card Solutions (2)

AD/DA

Mass Storage and Video

High Speed AD/DA

Communication

SATA/SAS

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http://cards.terasic.com