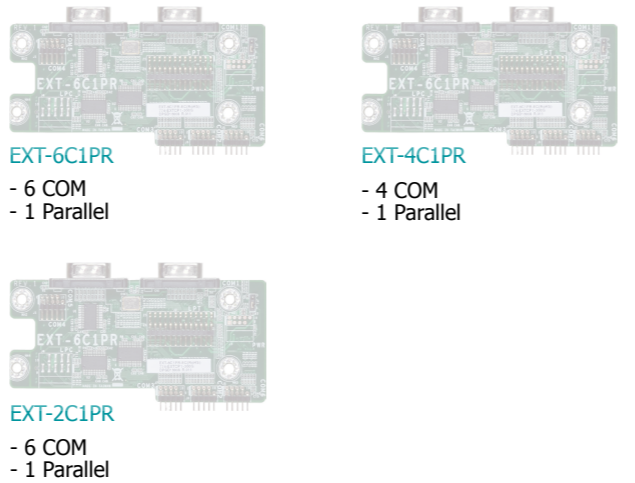


Features

- CHIPSET** Intel® H81
- CPU** 4th Generation Intel® Core™ processors
- MEMORY** 2 DDR3/DDR3L SODIMM up to 16GB
- EXPANSION** 1 PCIe x16, 1 Mini PCIe
- DISPLAY OUTPUTS** 1 HDMI, 1 DVI-I, 1 LVDS
- LAN** 2 Gigabit LAN ports
- COM** 2 COM
- USB** 8 USB: 2 USB 3.0, 6 USB 2.0
- STORAGE** 2 SATA 3.0
- DIO** 8-bit DIO

LPC connector for COM/Parallel expansion

- Extension board via the LPC connector supports:



Specifications

4th Generation Intel® Core™ Processors

- PROCESSOR**
 - LGA 1150 socket for:
 - 4th Generation Intel® Core™ processors
 - 22nm process technology
- CHIPSET**
 - Intel® H81 Express Chipset
- SYSTEM MEMORY**
 - Two 204-pin DDR3/DDR3L SODIMM sockets
 - Supports DDR3/DDR3L 1333/1600MHz
 - Supports up to 16GB system memory
 - Supports dual channel memory interface
 - DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

- I/O CONNECTORS**
 - 1 connector for 2 external USB 2.0/1.1 ports
 - 1 LVDS LCD panel connector
 - 1 LCD/inverter power connector
 - 1 8-bit Digital I/O connector
 - 1 front audio connector for line-out and mic-in jacks
 - 1 S/PDIF connector
 - 1 LPC connector
 - 2 SATA 3.0 ports
 - 1 24-pin ATX power connector
 - 1 4-pin 12V power connector
 - 1 chassis intrusion connector
 - 1 front panel connector
 - 2 fan connectors
- BIOS**
 - AMI BIOS
 - 64Mbit SPI BIOS
- ENERGY EFFICIENT DESIGN**
 - Supports ErP Lot6 power saving (optional)
 - Supports ACPI
 - System Power Management
 - Wake-On-Events include:
 - Wake-On-PS/2 KB/Mouse
 - Wake-On-USB KB/Mouse
 - Wake-On-LAN
 - RTC timer to power-on the system
 - CPU stopped clock control
 - AC power failure recovery

- EXPANSION SLOTS**
 - 1 PCIe x16 Gen 2 slot (PCIe 2.0)
 - 1 Mini PCIe slot
 - Supports USB and PCIe signals
 - Supports mSATA
 - Supports full size Mini PCIe card

- ONBOARD GRAPHICS FEATURES**
 - Intel® HD Graphics
 - Display ports: HDMI, DVI-I, LVDS
 - HDMI and DVI-I support up to 1920x1200 @ 60Hz resolution
 - LVDS supports 24-bit dual channel
 - Supports 20 Graphics Execution Units (EUs)
 - Intel® Clear Video Technology
 - DirectX Video Acceleration (DXVA) support for accelerating video processing

- ONBOARD AUDIO FEATURES**
 - Realtek ALC886 5.1-channel High Definition Audio
 - S/PDIF audio interface

- ONBOARD LAN FEATURES**
 - Intel® I210 PCI Express Gigabit Ethernet controller
 - Intel® I217 Gigabit Ethernet Phy
 - Integrated 10/100/1000 transceiver
 - Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

- DAMAGE FREE INTELLIGENCE**
 - Monitors CPU/system temperature and overheat alarm
 - Monitors VCore/5V/3.3V/V_DIMM/12V/5VSB voltages and failure alarm
 - Monitors CPU/system fan speed and failure alarm
 - Read back capability that displays temperature, voltage and fan speed
 - Watchdog timer function

- SERIAL ATA (SATA) INTERFACE**
 - 2 SATA 3.0 ports with data transfer rate up to 6Gb/s

- POWER CONSUMPTION**
 - TBD

- TRUSTED PLATFORM MODULE (TPM) - optional**
 - Provides a Trusted PC for secure transactions
 - Provides software license protection, enforcement and password protection

- OS SUPPORT**
 - Windows XP Professional x86 & SP3 (32-bit)
 - Windows XP Professional x64 & SP2 (64-bit)
 - Windows 7 Ultimate x86 & SP1 (32-bit)
 - Windows 7 Ultimate x64 & SP1 (64-bit)
 - Windows 8 Enterprise x86 (32-bit)
 - Windows 8 Enterprise x64 (64-bit)

- REAR PANEL I/O PORTS**
 - 1 mini-DIN-6 PS/2 keyboard/mouse port
 - 4 USB 2.0 ports
 - 2 USB 3.0 ports
 - 2 DB-9 RS232 serial ports
 - 1 HDMI port
 - 1 DVI-I port
 - 2 RJ45 LAN ports
 - Mic-in, line-in and line out jacks

- TEMPERATURE**
 - Operating: 0°C to 60°C
 - Storage: -20°C to 85°C

- HUMIDITY**
 - 10% to 90%

- DIMENSIONS**
 - Mini-ITX form factor
 - 170mm (6.7") x 170mm (6.7")

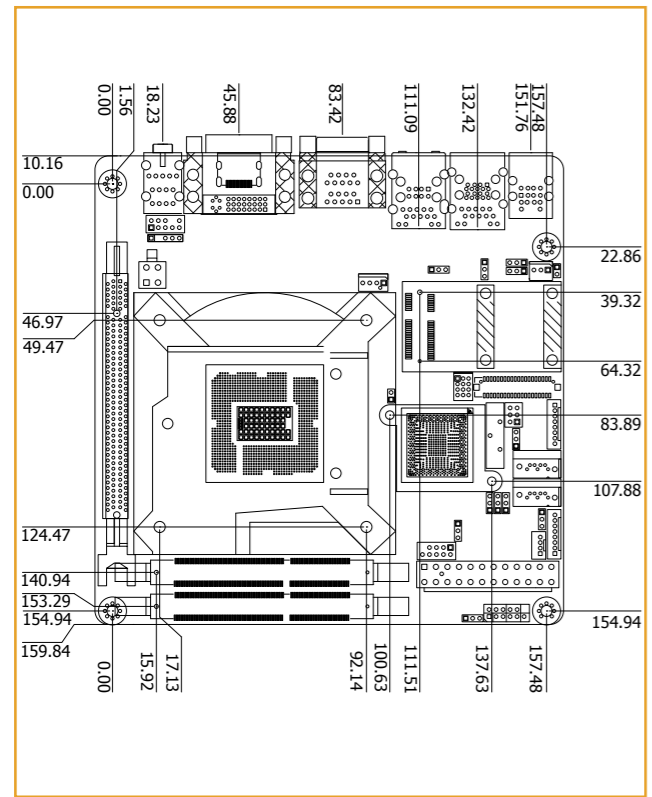
Packing List

- 1 HD100 motherboard
- 1 Serial ATA data cable
- 1 I/O shield
- 1 QR (Quick Reference)
- 1 DVD

Optional Items

- USB port cable
- Serial ATA data cable
- Serial ATA power cable
- I/O shield

Mechanical Drawing



Block Diagram

