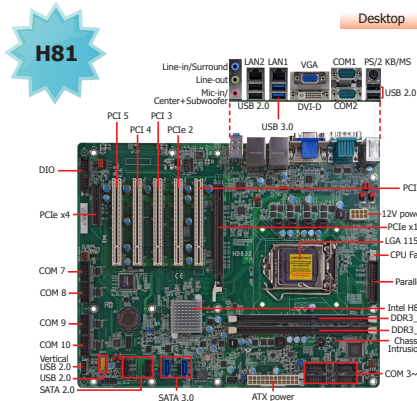


DFI HD632-H81 ATX

HD632-H81 ATX DFI



Features

CHIPSET	Intel® H81
CPU	4th Generation Intel® Core™ processors
MEMORY	2 DDR3/DDR3L DIMM up to 16GB
EXPANSION	1 PCIe x16 1 PCIe x4 5 PCI
DISPLAY OUTPUTS	1 VGA, 1 DVI-D
LAN	2 Gigabit LAN ports
COM	10 COM
USB	9 USB: 2 USB 3.0, 7 USB 2.0
STORAGE	4 SATA: 2 SATA 3.0, 2 SATA 2.0
PARALLEL	1 Parallel
DIO	8-bit DIO



Vertical USB port for securing USB flash drive

Specifications

4th Generation Intel® Core™ Processors

PROCESSOR

- LGA 1150 socket for:
 - 4th Generation Intel® Core™ processors (22nm process technology)
 - Intel® Core™ i3-4330 (3M Cache, 3.5 GHz); 54W
 - Intel® Core™ i3-4330T (3M Cache, up to 2.4 GHz); 35W
 - Intel® Pentium® G3420 (3M Cache, 3.2 GHz); 54W
 - Intel® Pentium® G3320T (3M Cache, 2.3 GHz); 35W

CHIPSET

- Intel® H81 Express Chipset

SYSTEM MEMORY

- Two 240-pin DDR3/DDR3L DIMM sockets
- Supports DDR3/DDR3L 1066/1333/1600MHz
- Supports dual channel memory interface
- Supports up to 16GB system memory
- DRAM device technologies: 1Gb, 2Gb and 4Gb DDR3 DRAM technologies are supported for x8 and x16 devices, unbuffered, non-ECC

EXPANSION SLOTS

- 1 PCIe x16 Gen 2 slot (PCIe 2.0)
- 1 PCIe x4 Gen 2 slot (PCIe 2.0)
- 5 PCI slots (PCI 2.3)

ONBOARD GRAPHICS FEATURES

- Intel® HD Graphics
- Display ports: VGA and DVI-D
- VGA and DVI-D supports up to 1920x1200 @ 60Hz resolution
- Supports 6 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
- Audio outputs: Mic-in/Center+Subwoofer, line-in/surround and line out
- S/PDIF audio interface

ONBOARD LAN FEATURES

- 2 Intel® I210 PCI Express Gigabit Ethernet controllers
- Integrated 10/100/1000 transceiver
- Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab

SERIAL ATA (SATA) INTERFACE

- 2 SATA 3.0 ports with data transfer rate up to 6Gb/s
- 2 SATA 2.0 ports with data transfer rate up to 3Gb/s
- Integrated Advanced Host Controller Interface (AHCI) controller

TRUSTED PLATFORM MODULE (TPM) - optional

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

REAR PANEL I/O PORTS

- 1 mini-DIN-6 port for PS/2 mouse/keyboard
- 2 DB-9 RS232 serial ports (RS232 and/or power)
- 1 VGA port
- 1 DVI-D port
- 2 RJ45 LAN ports
- 2 USB 3.0/2.0/1.1 ports
- 4 USB 2.0/1.1 ports
- Line-in/Surround, Line out, Mic-in/Center+Subwoofer jacks

I/O CONNECTORS

- 1 connector for 2 external USB 2.0/1.1 ports
- 1 vertical USB 2.0/1.1 port
- 1 8-bit Digital I/O connector
- 8 connectors for 8 external serial ports
 - 7 RS232 (4 are optional)
 - 1 RS422/485
- 1 front audio connector for line-out and mic-in jacks
- 1 S/PDIF connector
- 1 parallel port
- 4 Serial ATA ports
- 1 24-pin ATX power connector
- 1 8-pin 12V power connector
- 1 chassis intrusion connector
- 1 front panel connector
- 3 fan connectors

BIOS

- AMI BIOS
- 64Mbit SPI BIOS

WATCHDOG TIMER

- Software programmable from 1 to 255 seconds

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

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors VCore/SV/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

POWER CONSUMPTION

- TBD

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)

TEMPERATURE

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

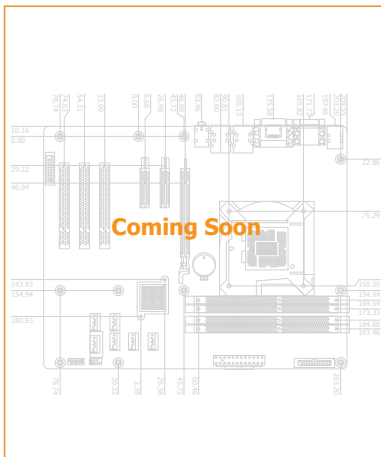
HUMIDITY

- 5% to 90%

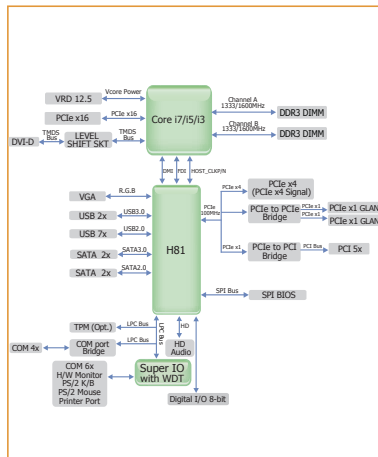
DIMENSIONS

- ATX form factor
- 305mm (12") x 244mm (9.6")

Mechanical Drawing



Block Diagram



Packing List

- 1 HD632 motherboard
- 1 Serial ATA data cable
- 1 I/O shield
- 1 DVD
- 1 QR (Quick Reference)

Optional Items

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

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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