

BL631-D Intel® Q35 ATX Board

PROCESSOR

- LGA 775 socket for:
 - Intel® Core™2 Quad / Intel® Core™2 Duo
 - Intel® Wolfdale 45nm processors
- Supports Intel Enhanced Memory 64 Technology (EMT64T)
- Supports Enhanced Intel SpeedStep Technology (EIST)
- 1333*/1066/800MHz FSB
- *Available on CPUs that support 1333MHz FSB

CHIPSET

- Intel® chipset
 - Intel® Q35 Express chipset
 - Intel® ICH9 I/O Controller Hub

SYSTEM MEMORY

- Four 240-pin DDR2 DIMM sockets
- Supports dual channel (128-bit wide) memory interface
- Supports 667MHz and 800MHz DDR2 SDRAM
- Supports maximum of 8GB system memory using 512Mbit or 1Gbit technology for x8 and x16 devices
- *ECC DDR2 DIMMs are not supported

EXPANSION SLOTS

- 1 PCI Express x16 slot
- 2 PCI Express x1 slots
- 3 PCI slots

ONBOARD GRAPHICS FEATURES

- Integrated Intel GMA3100
 - Up to 384MB maximum video memory
 - 2048x1536 at 75 Hz maximum resolution
 - Supports DVI port through Serial Digital Video Out (SDVO) interface
 - Dual screen display through CRT and DVI-I (DVI-D signal only) ports

ONBOARD AUDIO FEATURES

- Realtek ALC885 8-channel HD Audio Codec
- High-performance DACs with 106dB dynamic range (A-Weight), ADCs with 101dB dynamic range (A-Weight)

ONBOARD LAN FEATURES

- Two Realtek RTL8111B PCI Express Gigabit controllers
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

SERIAL ATA INTERFACE

- Supports 4 SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification
- SATA speed up to 3Gb/s

IDE INTERFACE

- JMicron JMB368 PCI Express to PATA host controller
- Supports up to 2 UltraDMA 33/66/100Mbps IDE devices

REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 1 DB-15 VGA port
- 1 DVI-I port (DVI-D signal only)
- 2 RJ45 LAN ports
- 6 USB 2.0/1.1 ports
- 6 audio jacks for center/subwoofer, rear R/L, side R/L, line-in, line-out (front R/L) and mic-in

I/O CONNECTORS

- 3 connectors for 6 additional external USB 2.0/1.1 ports
- 2 connectors for external RS232 serial ports
- 1 DIO connector
- 1 parallel connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-in/out connector
- 1 connector for IrDA interface
- 4 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector
- 1 24-pin ATX power connector
- 1 8-pin 12V power connector
- 1 chassis open connector
- 1 front panel connector
- 3 fan connectors

BIOS

- Award BIOS
- 8Mbit flash memory

ENERGY EFFICIENT DESIGN

- Supports ACPI specification and OS Directed Power Management
- Supports ACPI STR (Suspend to RAM) function
- Wake-On-Events include:
 - Wake-On-PS/2 Keyboard/Mouse
 - Wake-On-USB Keyboard/Mouse
 - Wake-On-LAN and Wake-On-Ring
 - RTC timer to power-on the system
- System power management supported
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v1.0a specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system/AUX temperature and overheat alarm
- Monitors CPU(V)/5V/1.5V/dimm(V)/12V/VBAT(V)/3.3V/V3.3sb(V) voltages and failure alarm
- Monitors CPU/system/2nd fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

PCB

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

REAR PANEL I/O PORTS

