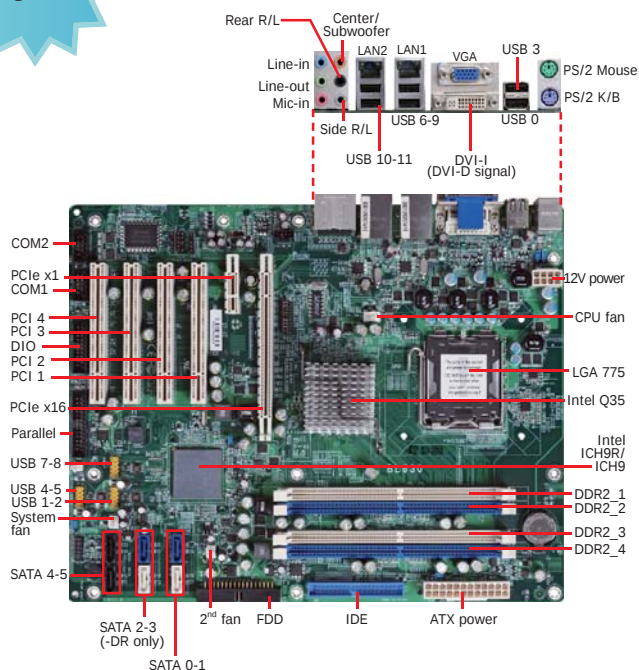


BL630-D/DR ATX

Q35

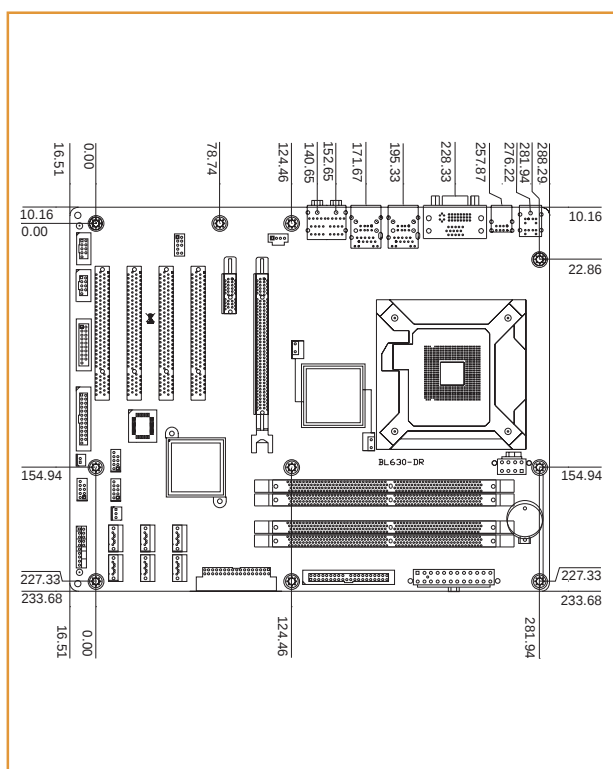
Desktop



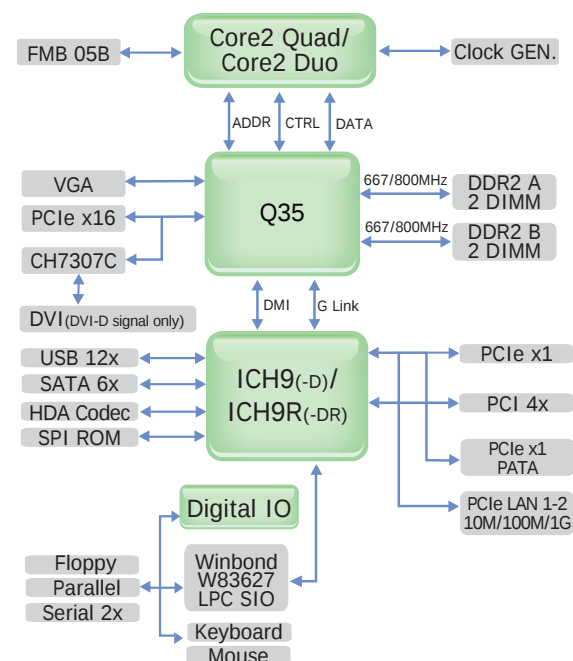
Features

CHIPSET	Intel® Q35 / ICH9 (-D) Intel® Q35 / ICH9R (-DR)
CPU	Intel® Core™2 Quad Intel® Core™2 Duo Intel® Pentium® Intel® Celeron®
MEMORY	4 DDR2 DIMM up to 8GB
EXPANSION	1 PCIe x16, 1 PCIe x1, 4 PCI
DISPLAY OUTPUTS	1 DVI-I (DVI-D signal), 1 VGA
LAN	2 Gigabit LAN ports
COM	2 COM
USB	12 USB 2.0
PARALLEL	1 Parallel
STORAGE	4 SATA 2.0 (-D) 6 SATA 2.0 (-DR) 1 IDE 1 FDD
DIO	8-bit DIO

Mechanical Drawing



Block Diagram



BL630-D/DR ATX

Specifications

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 (-D)
 - Intel® ICH9R I/O Controller Hub (-DR)

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

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

ONBOARD AUDIO FEATURES

- Realtek ALC889 8-channel HD Audio Codec
- High-performance DACs with 106dB dynamic range (AWeight), ADCs with 101dB dynamic range (A-Weight)

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) ports

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 (-D)
- Supports 6 SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification (-DR)
- SATA speed up to 3Gb/s
- RAID 0, RAID 1, RAID 0+1 and RAID 5 (-DR only)

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)
- 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 (-D)
- 6 Serial ATA connectors (-DR)
- 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

EXPANSION SLOTS

- 1 PCI Express x16 slot
- 1 PCI Express x1 slot
- 4 PCI slots

POWER CONSUMPTION

- 115.86 W with Intel® Core™2 Quad at 2.83GHz and 2x 1GB DDR2 DIMM

TEMPERATURE

- 0°C to 60°C

HUMIDITY

- 10% to 90%

DIMENSIONS

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

CERTIFICATION

- CE
- FCC Class B
- UL
- RoHS

Packing List

- 1 BL630-D or BL630-DR motherboard
- 1 IDE cable
- 2 USB port cables
- 2 Serial ATA data cables
- 2 Serial ATA power cables
- 1 COM port cable (with bracket)
- 1 "Main Board Utility" CD
- 1 I/O shield
- 1 QR (Quick Reference)
- 2 RAID driver floppy diskettes (-DR only)

Optional Items

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