# DHHCOX ORevision Control OLong Life Cycle



# **BL100-NE** Intel<sup>®</sup> Q35 Mini-ITX 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

Note: Use only push-pin type of CPU heat sink and fan assembly.

#### CHIPSET

#### Intel<sup>®</sup> chipset

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

#### **SYSTEM MEMORY**

- One 240-pin DDR2 DIMM socket
- Supports 667MHz and 800MHz DDR2 SDRAM
- Supports maximum of 4GB system memory using 512Mbit or 1Gbit technology for x8 and x16 devices \*ECC DDR2 DIMMs are not supported

#### **EXPANSION SLOTS**

1 PCI slot

#### **ONBOARD GRAPHICS FEATURES**

- Integrated Intel GMA3100
  - Up to 384MB maximum video memory
  - 2048x1536 at 75 Hz maximum resolution

#### **ONBOARD AUDIO FEATURES**

- Realtek ALC662 High Definition audio CODEC
- Six channel DAC supports 16/20/24-bit PCM format for 5.1 channel audio solution
- All DAC support independent 44.1k/48k/96kHz sample rate
- All ADC support independent 44.1k/48k/96kHz sample rate

#### **ONBOARD LAN FEATURES**

- Two Realtek RTL8111C 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

### **REAR PANEL I/O PORTS**

- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 3 DB-9 RS232 serial ports
- 1 DB-15 VGA port
- 2 RJ45 LAN ports
- 4 USB 2.0/1.1 ports
- Mic-in, line-in and line-out

#### **I/O CONNECTORS**

- 1 connector for 2 additional external USB 2.0/1.1 ports
- 1 connector for external RS232 serial port
- 1 parallel connector
- 1 front audio connector
- . 4 Serial ATA connectors
- 1 20-pin ATX power connector
- 1 4-pin 12V power connector
- 1 chassis open connector 1 front panel connector
- . 2 fan connectors

## BIOS

- Award BIOS ٠
- 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 -
  - 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 temperature and overheat alarm
- Monitors CPU/DIMM/3.3V/5V/12V/V5sb/VBAT 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

#### **TEMPERATURE**

0°C to 60°C

#### HUMIDITY

• 10% to 90%

#### PCB

- 8 layers, Mini-ITX form factor
- 170mm (6.7") x 170mm (6.7")

#### **REAR PANEL I/O PORTS**

PS/2 COM I COM 3 LAN I LAN 2 Mouse Mic-in Line-in Line-out PS/2 K/B VGA USB 0-1 USB 2-3 COM 2

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