DFI-ITOX®

○ Revision Control ○ Long Life Cycle

RoHS

BL100-NE
Intel® 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® 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
- 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
- 0ºC to 60ºC

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