EL630-NR
Intel® Q45 ATX Board

PROCESSOR
- LGA 775 socket for:
  - Intel® Core™2 Quad Q9400
  - Intel® Core™2 Duo E8400/E7400/E6400/E4300
  - Intel® Pentium® E6500/E5300/E2160
  - Intel® Celeron® E3400/E1500/440
- Supports Intel Enhanced Memory 64 Technology (EMT64T)
- Supports Enhanced Intel SpeedStep Technology (EIST)
- 1333/1066/800MHz FSB

CHIPSET
- Intel® chipset
  - Intel® Q45 Express chipset
  - Intel® ICH10DO I/O Controller Hub

SYSTEM MEMORY
- Four 240-pin DDR3 DIMM sockets
- Supports DDR3 800/1066MHz
- Maximum memory bandwidth of 17GB/s in dual-channel mode when using DDR3 1066MHz
- Dual channel (128-bit wide) memory interface
- Up to 8GB system memory
- Supports unbuffered x8 and x16 DIMMs

EXPANSION SLOTS
- 1 PCI Express x16 slot (PCIE 2.0)
- 1 PCI Express x4 slot (PCIEX4 1.1)
- 5 PCI slots (PCI 2.3)

ONBOARD GRAPHICS FEATURES
- Intel GMA4500
  - Supports 3D, 2D and video capabilities, DX10 and OpenGL 2.1

ONBOARD AUDIO FEATURES
- Realtek ALC262 2-channel High Definition Audio
- Two 24-bit stereo DACs and three 20-bit stereo ADCs
- S/PDIF input/output interface

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 6 SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification
- SATA speed up to 3Gb/s (SATA 2.0)
- Supports RAID 0, 1, 5 and 10

IDE INTERFACE
- Supports up to two IDE devices
- Supports Ultra ATA 133/100/66/33

REAR PANEL I/O PORTS
- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 2 DB-9 RS232 serial ports
- 1 DVI-I port (DVI-D signal only)
- 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
- 4 connectors for 8 additional external USB 2.0/1.1 ports
- 2 connectors for external RS232 serial ports
- 1 DIO connector
- 1 front audio connector
- 1 CD-in internal audio connector
- 1 S/PDIF connector
- 6 Serial ATA connectors
- 1 40-pin IDE connector
- 1 FDD connector
- 1 24-pin ATX power connector
- 1 4-pin 12V power connector
- 1 chassis open connector
- 1 front panel connector
- 3 fan connectors

BIOS
- Award BIOS
- 8Mbit SPI flash memory

ENERGY EFFICIENT DESIGN
- 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
- Soft Power supported - ACPI specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE
- Monitors CPU/system temperature and overheat alarm
- Monitors CPU/DIMM/3.3V/5V/12V/Chipset Vcore/VBAT 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
- 4 layers, ATX form factor
- 305mm (12") x 244mm (9.6")

REGULATORY
- UL, cUL, EMC: CE, FCC Class B

REAR PANEL I/O PORTS

PS/2 Mouse | COM 2 | VGA | LAN 1 | LAN 2 | Mic-in | Line-in | Line-out
PS/2 K/B | COM 1 | DVI-I (DVI-D signal only) | USB 0-1 | USB 2-3