# ASSURED SYSTEMS

## DFI-ACP
### ○ Revision Control  ○ Long Life Cycle

RoHS

# 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 DIMM
- Maximum memory bandwidth of 17GB/s in dual-channel mode when using DDR3 1066MHz
- Supports dual channel memory interface
- Supports 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 (PCIE 1.1)
- 5 PCI slots (PCI 2.3)

### ONBOARD GRAPHICS FEATURES
- Integrated Intel GMA 4500
  - Supports 3D, 2D and video capabilities, DX10 and OpenGL 2.1
- Display ports: DVI-I (Chrontel CH7307C) and VGA

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

### ONBOARD LAN FEATURES
- Two Realtek RTL8111C PCI Express Gigabit Ethernet controllers
- Supports 10Mbps, 100Mbps and 1Gbps data transmission
- IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

### SERIAL ATA (SATA) INTERFACE
- 6 SATA (Serial ATA) interfaces compliant with SATA 1.0 specification
- SATA speed up to 3Gb/s (SATA 2.0)
- Supports RAID 0/1/5/10

### 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 external USB 2.0/1.1 ports
- 2 connectors for 2 external RS232 serial ports
- 1 8-bit DIO connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in 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 intrusion connector
- 1 front panel connector
- 3 fan connectors

### BIOS
- Award BIOS
- 8Mbit SPI BIOS

### ENERGY EFFICIENT DESIGN
- ACPI v3.0b specification
- System Power Management
- 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
- 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
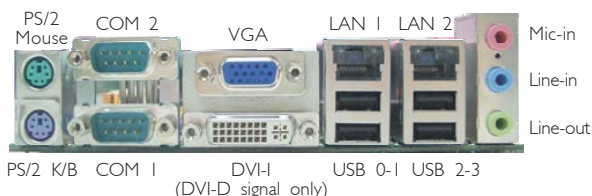- Watchdog timer function

### TEMPERATURE
- 0°C to 60°C

### HUMIDITY
- 10% to 90%

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

## 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

# Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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