

ORavision Control OLong Life Cycle



EL331-RM

Intel® Q45 microATX Board

PROCESSOR

- IGA 775 socket for:

 - Inte | © Core | M2 Quad Q9400 | Inte | © Core | M2 Quad Q9400 | E4300 | E4300
- Supports Intel Enhanced Memory 64 Technology (EM64T)
- Supports Enhanced Intel Speed Step Technology (EIST) 1333/1066/800MHz FSB

- Inte l® c hip se t

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

SYSTEM MEMORY

- Four 240-pin DDR3 DIMM sockets
- Supports DDR3 800/1066MHz DIMM
- Supports 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)
- 2 PCI slots (PCI 2.3)

ONBOARD GRAPHICS FEATURES

- Integrated Intel GMA 4500
 - Supports 3D, 2D and video capabilities, DX10 and OpenGL 2.1
- Display port: VGA

ONBOARD AUDIO FEATURES

- Realtek ALC 262 2-channel High Definition Audio
- Two 24-bit stereo DACs and three 20-bit stereo ADCs
- S'PDIF audio interface

ONBOARD LAN FEATURES

- Intel WG82567LM PCI Express Gigabit Ethemet controller
- Supports 10Mbps, 100Mbps and 1Gbps data transmission IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps)
- compliant

SERIAL ATA (SATA) INTERFACE

- 4 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

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

INTEL ACTIVE MANAGEMENT TECHNOLOGY (AMT)

- Supports iAMT5.0
- Out-of-band system access
- Remote trouble shooting and recovery
- Hardware-based agent presence checking
- Proactive alerting
- Remote hardware and software asset tracking

TRUSTED PLATFORM MODULE (TPM)

- Provides a Trusted PC for secure transactions
- Provides software license protection, enforcement and password protection

REAR PANEL I/O PORTS

- 1 mini-DIN-6 PS/2 mouse port
- mini-DIN-6 PS/2 keyboard port
- DB-25 parallel port
- 1 DB-9 RS232 senal port
- 1 DB-15 VGA port
- 1 RJ45 LAN port
- 4 USB 2.0/1.1 ports
- Mic-in, line-in and line-out

I/O CONNECTORS

- 2 connectors for 4 external USB 2.0/1.1 ports
- 1 connector for an external RS232 serial port
- 1 8-bit DIO connector
- front audio connector for line-out and mic-in jacks
- 1 CD-in connector
- 1 S/PDF connector
- 4 Serial ATA ports
- 40-pin IDE connector
- 1 FDD connector
- 24-pin ATX power connector
- 4-pin 12V power connector
- 1 chassis intrusion connector
- front panel connector
- 3 fan connectors

BIOS

- AMI BIOS
- 32Mb it SPI BIOS

ENERGY EFFICIENT DESIGN

- ACPI v2.0 specific ation
- System Power Management
- Wake-On-Events include:
- Wake-On-USB Keyboard/Mouse
- Wake-On-LAN
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm Monitors CPU/DIMM/ $5V\!/\,12V\!/\,5V\!S\!B\!/V\!B\!AT$ voltages and failure alarm
- Monitors CPU/system fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed

TEMPERATURE

0°C to 60°C

HUMIDITY

• 10% to 90%

- mic to ATX form factor
- 244mm (9.6") x 244mm (9.6")

REAR PANEL I/O PORTS



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