iTOX Applied Computing

Revision Control Long Life Cycle

RoHS

LT600-D

Intel® 945G ATX Board

PROCESSOR
- LGA 775 socket for:
  - Intel® Core™2 Duo
  - Intel® Pentium® D
  - Intel® Pentium® 4 or Intel® Celeron
  - Intel® Celeron D
- Supports Intel Enhanced Memory 64 Technology (EMT64T)
- Supports Enhanced Intel SpeedStep Technology (EIST)
- Supports Intel Hyper-Threading Technology
- Supports 1066/800/533MHz FSB

CHIPSET
- Intel® chipset
  - North bridge: Intel® 945G Express chipset
  - South bridge: Intel® ICH7

SYSTEM MEMORY
- Four 240-pin DDR2 DIMM sockets
- Supports DDR2 533 and DDR2 667 DIMMs
- Supports dual channel (128-bit wide) memory interface
- Supports up to 4GB system memory
- Supports non-ECC x8 and x16 DIMMs
- Supports up to 1Gb DRAM densities
- Supports unbuffered DIMMs

EXPANSION SLOTS
- 1 PCI Express x16 slot
- 6 PCI slots

ONBOARD GRAPHICS FEATURES
- Integrated Intel Graphics Media Accelerator 950

ONBOARD AUDIO FEATURES
- Realtek ALC662 5.1-channel High Definition Audio CODEC
- Six channel DAC support 16/20/24-bit PCM format for 5.1 channel audio solution
- Two stereo ADC support 16/20-bit PCM format
- All DAC/ADC support independent 44.1k/48k/96kHz sample rate
- 44.1k/48k/96kHz S/PDIF-out interface

ONBOARD LAN FEATURES
- Two Realtek RTL8111B 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 four SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification
- SATA speed up to 3Gb/s

IDE INTERFACE
- Supports up to UltraDMA 100Mbps hard drives
- Supports PIO IDE transfers up to 16MB/sec

REAR PANEL I/O PORTS
- 1 mini-DIN-6 PS/2 mouse port
- 1 mini-DIN-6 PS/2 keyboard port
- 1 DB-25 parallel port
- 1 DB-9 serial port
- 1 DB-15 VGA port
- 2 RJ45 LAN ports
- 4 USB 2.0/1.1 ports
- Line-in, line-out and mic-in

I/O CONNECTORS
- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 connector for an external COM 2 port
- 1 Digital I/O connector
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-out connector
- 1 connector for IrDA interface
- 4 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector
- 1 chassis open connector
- 1 24-pin ATX power connector
- 1 4-pin 12V power connector
- 1 front panel connector
- 3 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
- CPU stopped clock control
- Microsoft®/Intel® APM 1.2 compliant
- Soft Power supported - ACPI v2.0 specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE
- Monitors CPU/system/AUX temperature and overheat alarm
- Monitors Vcore/VCC3/VBAT/3VSB/12V/1.5V/1.8V/5V voltages and failure alarm
- Monitors CPU/2nd/system fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog Timer function

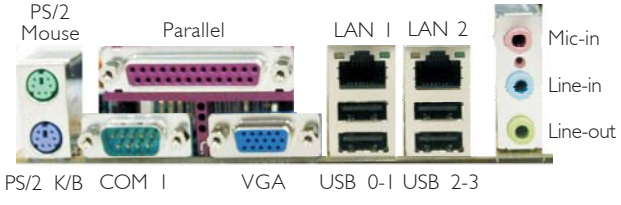
TEMPERATURE
- 0°C to 60°C

HUMIDITY
- 10% to 90%

PCB
- 4 layers, ATX form factor
- 30.5cm (12") x 24.4cm (9.6")

SAFETY
- UL, cUL, FCC Class B, CE

REAR PANEL I/O PORTS



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