# ORavision Control OLong Life Cycle



# G7S620-N-G

# Intel® 865G ATX System Board

#### **PROCESSOR**

- LGA 775 socket for:
  - Intel® Pentium® D
  - Intel® Celeron D
- Supports Intel Enhanced Memory 64 Technology (EMT64T)
- Supports Enhanced Intel SpeedStep Technology (EIST)
- Supports Intel Hyper-Threading Technology Supports 800/533MHz FSB

#### **CHIPSET**

- Intel® chipset
  - Intel® 865G Graphics Memory Controller Hub (GMCH) Intel® 82801EB I/O Controller Hub (ICH5)

#### **SYSTEM MEMORY**

- Supports two channel (64-bit wide) memory interface
   Each channel supports 2 DIMM sockets
  Supports up to 4GB system memory
  Synchronous operation with processor system bus
   PC2700/PC3200 (DDR333/DDR400) with 800MHz FSB
  CPU. DDR333 will run at 320MHz memory frequency when used with 800MHz FSB CPU. PC2700 (DDR333) with 533MHz FSB CPU
- Supports non-ECC (x64) unbuffered DIMM using 128Mb, 256Mb or 512Mb

- Award BIOS
- 4Mbit 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-Ring (external modem)
  - Wake-On-LAN
- 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 v1.0a specification
  AC power failure recovery

### **DAMAGE FREE INTELLIGENCE**

- Monitors CPU/system temperature Monitors CPU/1.5V/3.3V/5V/+12V voltages Monitors CPU/system fan speed
- Read back capability that displays temperature, voltage and fan speed Supports Watchdog Timer function

#### **ONBOARD GRAPHICS FEATURES**

- Graphics memory
  - Shares 1MB/8MB/16MB of the system memory in DOS
  - Uses Dynamic Video Memory Technology (DVMT) in
- Windows mode Graphics controller
- Core frequency of 266MHz
- 350MHz integrated 24-bit RAMDAC
- Analog display up to 2048x1536 @ 60Hz refresh
- 3D setup and render engine Discrete, Triangles, Strips and fans
- Per pixel perspective corrected texture mapping Software DVD at 30fps, full screen
- 2D graphics features
- **Öptimized 256-bit BLT engine**
- 32-bit alpha blended cursor Programmable 3-color transparent cursor
- 3D graphics features
  - Maximum 3D resolution: 1600x1200x32 @ 85Hz

  - Flat and Gouraud shading 16- and 24-bit Z-buffering and 16- and 24-bit W-bufferina
  - Vertex and programmable pixel fogging and atmospheric effects
  - Double and triple render buffer

#### **ONBOARD AUDIO FEATURES**

- Realtek ALC655
- 16-bit stereo full-duplex codec with 48KHz sampling rate High quality differential CD input
- True stereo line level outputs
- S/PDIF-out interface 5.1-channel audio output

#### **ONBOARD LAN FEATURES**

- Two Realtek RTL8110SC PCI Gigabit LAN controllers Supports 10Mbps, 100Mbps and 1Gbps data transmission IEEE 802.3 (10/100Mbps) and IEEE 802.3ab (1Gbps) compliant

#### IDE INTERFACE

- Supports up to UltraDMA 100Mbps hard drives PIO Mode 4 Enhanced IDE (data transfer rate up to 14MB/sec.)

#### Serial ATA INTERFACE

Supports two SATA (Serial ATA) interfaces which are compliant with SATA 1.0 specification (1.5Gbps interface)

## **ACCELERATED GRAPHICS PORT (A.G.P.)**

- Supports AGP 3.0 and AGP 2.0 spec. AGP 8x data rate provides a theoretical maximum bandwidth of 2.13GB/sec. Supports 1.5V AGP 4x with up to 1066MB/sec. band-width for 3D graphics applications (3.3V AGP card is not supported)

#### **REAR PANEL I/O PORTS**

- mini-DIN-6 PS/2 mouse port 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
- Mic-in, line-in and line-out

#### I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports 3 connectors for 3 external serial ports 1 front audio connector for external line-out and mic-in jacks
- CD-in internal audio connector
- S/PDIF-out connector
- connector for IrDA interface

- Serial ATA, 2 IDE and 1 floppy Digital I/O connector Digital I/O power connector ATX power supply connectors Wake-On-LAN connector
- 2 fan connectors

#### **EXPANSION SLOTS**

- 1 AGP slot
- 2 ISA slots 4 PCI slots

### **TEMPERATURE**

0°C to 60°C

# **HUMIDITY**

## 10% to 90%

- 4 layers, ATX form factor 30.5cm (12.05") x 24.4cm (9.6")

UL, cUL, FCC Class B, CE

# **REAR PANEL I/O PORTS**

