# DFI-ACE

## ORavision Control OLong Lifa Cycla



## G7S620-N

### Intel® 865G ATX System Board

#### **PROCESSOR**

- LGA 775 socket for:

  - 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 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 pon ECC (644) unpluffered DIMM using 128Mb.
- 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/4MB/8MB/16MB/32MB of the system memory in DOS mode
  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

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

#### **ONBOARD LAN FEATURES**

- Two Realtek RTL8110SB 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.)

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. bandwidth for 3D graphics applications (3.3V AGP card is not supported)

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

- 1 mini-DIN-6 PS/2 mouse port 1 mini-DIN-6 PS/2 keyboard port
- 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
- CD-in internal audio connector S/PDIF-out connector connector for IrDA interface

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

#### **EXPANSION SLOTS**

- 1 AGP slot
- 2 ISA slots
- 4 PCI slots

#### **TEMPERATURE**

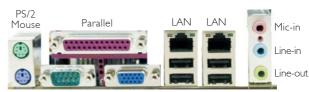
**HUMIDITY** 

0°C to 60°C

### • 10% to 90%

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

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



PS/2 COM VGA USB 1-2 USB 3-4 K/B