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ORavision Control OLong Life Cycle



G7V100-B-G

Intel® 915GV LGA775 Mini-ITX System Board

PROCESSOR

- LGA 775 socket for:
 - 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® 915GV chipset
 - Intel® 915GV Graphics Memory Controller Hub (GMCH)
 - Intel® 82801FB I/O Controller Hub (ICH6)

- Two 240-pin DDR2 SDRAM DIMM sockets
- Supports dual channel (128-bit wide) memory interface 1.8V unbuffered non-ECC DDR2 533/667MHz SDRAM
- Supports maximum of 4GB system memory using 256Mbit, 512Mbit or 1Gbit technology for x8 and x16 devices

BIOS

- 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-LAN
 - Wake-On-Ring
 - RTC timer to power-on the system
- System power management supported
- CPU stopped clock control
- Hardware supports SMI green mode Microsoft*/Intel* APM 1.2 compliant
- Soft Power supported ACPI v1.0a specification
- AC power failure recovery

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors 3VSB(V)/VBAT(V)/1.5V/3.3V/5V/12V/CPU(V)/1.8V voltages and failure alarm
- Monitors CPU/system fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Watchdog timer function

ONBOARD GRAPHICS FEATURES

- Built-in Intel Graphics Media Accelerator 900
- Graphics memory
 - Shares 1MB/8MB of the system memory in DOS mode
 - Uses Dynamic Video Memory Technology (DVMT) in Windows mode
- Graphics controller
 - Core frequency of 333MHz
 - 400MHz integrated 24-bit RAMDAC
 - Analog display up to 2048x1536 @ 85Hz refresh
 - High quality 3D setup and render engine Discrete, Triangles, Strips and fans
 - Hardware Pixel Shader 2.0
 - Supports D3D and OGL pixelization rules
 - Per pixel perspective corrected texture mapping
 - 533 MegaTexel/sec performance, 266 Mpixels/sec fill rate up to two bilinear textures
- 2D graphics features
 - Öptimized 256-bit BLT engine
 - 32-bit alpha blended cursor
 - Programmable 3-color transparent cursor

- 3D graphics features
 - Supports maximum 3D resolution: 1600x1200x32 @ 85Hz
 - Flat and Gouraud shading

 - 16- and 24-bit Z-buffering and 8-bit Stencil buffering
 Vertex and programmable pixel fog and atmospheric
 - Supports Double and triple render buffer

ONBOARD AUDIO FEATURES

- Realtek ALC655 18-bit_stereo_full-duplex_codec_with_independent variable sampling rate
- High quality differential CD input True stereo line level outputs S/PDIF-in/out interface

- 5.1-channel audio output

ONBOARD LAN FEATURES

- Marvell 88E8053 PCI Express Gigabit ethernet controller Integrated power management functions
- Full duplex support at both 10 Mbps, 100 Mbps and
- Supports IEEE 802.3u auto-negotiation Supports wire for management

SERIAL ATA INTERFACE

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

IDE INTERFACE

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

DIGITAL I/O FEATURES

Supports 8 in or 8 out; or independent 4 in or 4 out

REAR PANEL I/O PORTS

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

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- connector for external COM 3
- Digital I/O connector
- Digital I/O power connector front audio connector for line-out and mic-in jacks
- CD-in internal audio connector
- S/PDIF-in/out connector connector for IrDA interface
- Serial ATA connectors
- 40-pin IDE connector
- 1 floppy connector (FPC connector type) 2 ATX 12V power supply connectors
- 2 fan connectors

EXPANSION SLOTS

1 PCI slot for PCI expansion card or customized riser card for 1, 2 or 3 PCI slots expansion (for low profile PCI card only)

TEMPERATURE

- Operating: 0°C to 60°C
- Non-operating: -40°C to 85°C

• Operating: 10% to 90%

• PCI 2.2 and AC '97 compliant

- 6 layers, Mini-ITX form factor
- 17cm (6.7") x 17cm (6.7")