

G7V300-P Intel® 915GV System Board

PROCESSOR

- Intel® Pentium® 4 Prescott processor
 - Hyper-Threading Technology
 - 800MHz/533MHz system data bus
- Processor socket: Socket 775

CHIPSET

- Intel® chipset
 - Intel® 915GV Express chipset
 - Intel® 82801FB I/O Controller Hub (ICH6)

SYSTEM MEMORY

- Four 184-pin DDR SDRAM DIMM sockets
- Supports dual channel (128-bit wide) memory interface
- Unbuffered PC3200 (DDR400) or PC2700 (DDR333) DDR SDRAM DIMM
- Supports maximum of 4GB system memory up to 512Mbit technology for x8 and x16 devices, non-ECC memory

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

ONBOARD GRAPHICS FEATURES

- 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
 - Optimized 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 effects
 - Supports Double and triple render buffer
- Software drivers
 - Windows® 2000/XP

ONBOARD AUDIO FEATURES

- Realtek ALC655
- 16-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

- RTL8110SB Gigabit ethernet controller
- 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 (1.5Gbps interface)

IDE INTERFACE

- Supports up to UltraDMA 100Mbps hard drives
- PIO Mode 4 Enhanced IDE (data transfer rate up to 14MB/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
- 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 additional external USB 2.0/1.1 ports
- 3 connectors for 3 external COM ports
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 S/PDIF-in/out connector
- 1 connector for IrDA interface
- 4 Serial ATA connectors
- 1 40-pin IDE connector
- 1 floppy connector
- 1 24-pin ATX power connector
- 1 4-pin 12V power connector
- 1 front panel connector
- 2 fan connectors
- 1 chassis open connector

EXPANSION SLOTS

- 4 PCI slots

COMPATIBILITY

- PCI 2.2 and AC '97 compliant

TEMPERATURE

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

HUMIDITY

- Operating: 10% to 90%

PCB

- 4 layers, microATX form factor
- 24.4cm (9.6") x 24.4cm (9.6")

REAR PANEL I/O PORTS

