ITOX
Applied Computing

○ *Revision Control* ○ *Long Life Cycle*

RoHS

G7V600-B-G
Intel® 915GV chipset
Socket 775-based Intel® ATX board

PROCESSOR (Socket 775-based Intel®)
- Intel® Pentium® 4 Processor with Hyper-Threading Technology
  - 800MHz/533MHz system data bus

CHIPSET
- Intel® 915GV 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/VCCP/VTT voltages and failure alarm
- Monitors 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 Megapixels/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: 1600 x 1200 x 32 @ 85Hz

- Flat and Gouraud shading
- 16-bit 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
- 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 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
- Low profile line-in and line-out Rev. BO0 & up
- Low profile Mic-in, line-in and line-out Rev. BN0 & previous

I/O CONNECTORS
- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 connector for external COM port
- 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
- 5 fan connectors

EXPANSION SLOTS
- 7 PCI slots
- 1 PCI Ex1 slot

COMPATIBILITY
- PCI 2.2 and AC '97 compliant

CIRCUIT BOARD (PCB)
- 4 layers, ATX form factor
- 30.5 cm (12.0") x 24.4 cm (9.6")

SAFETY
- UL, cUL, FCC, CE

MA-SD-136-0806