

G4G100-N

Intel® Pentium® 4 Processor and Intel® Celeron® D Processor

Introduced: Q1/2005

PROCESSOR (Socket 478-based Intel®)

- Intel® Pentium® 4 Processor
 - Hyper-Threading Technology
 - 800MHz/533MHz system data bus
- Intel® Celeron D Processor
 - 533MHz system data bus
 - Based on 90nm core

CHIPSET

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

SYSTEM MEMORY

- Two 184-pin DDR SDRAM DIMM sockets
- Support dual channel (128-bit wide) memory interface
- 2.6V unbuffered PC3200 (DDR400) or PC2700 (DDR333) DDR SDRAM DIMM
- Supports maximum of 2GB system memory using 256Mbit, 512Mbit, or 1Gbit technology for x8 and x16 devices

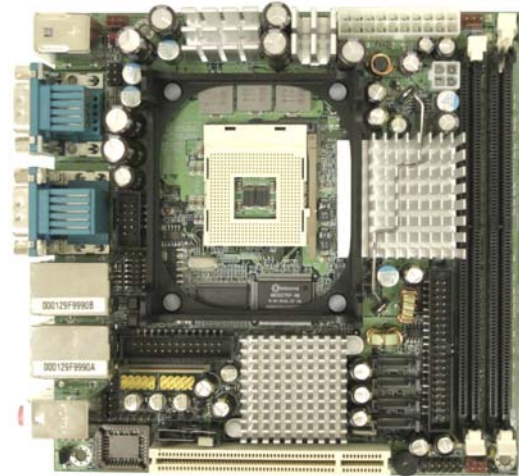
BIOS

- Award BIOS
- Supports SCSI sequential boot-up
- Supports DMI 2.0 function
- 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

6.7" (17cm)



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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 engine
 - Optimized 256-bit BLT engine
 - 32-bit alpha blended cursor
 - Programmable 3-color transparent cursor
- 3D Graphics engine
 - Supports maximum 3D resolution: 1600x1200x32 @ 85Hz
 - Flat and Gouraud Shading
 - 16-bit and 24-bit Z-buffering; 8-bit Stencil buffering
 - Vertex and programmable pixel fog and atmospheric effects
 - Supports double and triple render buffer
- Software drivers
 - Windows® 2000/XP

G4G100-N Revision Controlled Motherboard

DAMAGE FREE INTELLIGENCE

- Monitors CPU/system temperature and overheat alarm
- Monitors 5VSB(V)/VBAT(V)/1.5V/3.3V/5V/12V/CPU(V) voltages and failure alarm
- Monitors CPU/chassis/2nd fan speed and failure alarm
- Read back capability that displays temperature, voltage and fan speed
- Supports Watchdog Timer Function

ONBOARD AUDIO FEATURES

- Realtek ALC202A
- 18-bit stereo full-duplex codec with independent variable sampling rate
- High quality differential CD input
- True stereo line level outputs
- S/PDIF-out interface
- 2-channel audio output

ONBOARD LAN FEATURES

- Two Marvell 88E8053 PCI Express Gigabit ethernet controllers
- Integrated power management functions
- Full duplex support of both 10Mbps, 100 Mbps, and 1Gbps
- Supports IEEE 802.3u auto-negotiation
- Supports wire for management

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

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

I/O CONNECTORS

- 2 connectors for 4 additional external USB 2.0/1.1 ports
- 1 connector for external COM 3
- 1 connector for external parallel port
- 1 front audio connector for line-out and mic-in jacks
- 1 CD-in internal audio connector
- 1 connector for IrDA interface
- 1 40-pin IDE connector
- 1 floppy connector (FPC type)
- 2 ATX 12V power supply connector
- 1 chassis open connector
- 3 fan connectors

EXPANSION SLOTS

- 1 PCI slot for PCI expansion card or Riser Card
 - G4G100-N: 1 PCI slot for PCI expansion card
 - G4G100-N (R): 1 PCI slot for customized riser card for 1, 2, or 3 PCI slot expansion (for low profile PCI card only)

COMPATIBILITY

- PCI 2.2 and AC '97 compliant

PCB

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

SAFETY

- UL, cUL, FCC, CE



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