

- **PCI-755-VG2**
- Full-Size SBC with Intel® Pentium® 4 or Celeron® D, VGA, 2x Gigabit Ethernet, SATA



### Features:

- LGA775 socket support
- 800/533 MHz System Bus
- Hyper-Threading Technology Support
- DDR2 memory up to 2GB
- High-speed USB 2.0 ports
- 2 Gigabit Ethernet ports
- 4 Channels SATA-150
- Watchdog Timer

The PCI-755-VG2 is a full-size PICMG 1.0 form factor single-processor system host board based on the Intel® 915GV chipset with ICH6 I/O Controller Hub. It features the new 90nm process Intel® Pentium® 4 Processor with LGA775 socket, 800MHz Front Side Bus, and 1MB L2 cache. It supports up to 2 unbuffered, non-ECC, DDR2 DIMMs at 400/533MHz for a maximum of 2GB of memory. It rounds out the package with Intel® Graphics Media Accelerator 900 technology, PCI-Express X1 LAN, USB 2.0 and SATA for a powerful rack-mount or wall-mount system.

The PCI-755-VG2 is designed to run Windows 2000/XP and Linux operating systems as well as embedded real time applications. I/O features include a 32-bit/33MHz PCI Bus, onboard Gigabit Ethernet, LPC, EIDE Ultra ATA/100, 4 Channels SATA-150, UART compatible serial ports, a parallel port, floppy drive port, PS/2 Keyboard port and VGA with 2048x1536x8bit at 75Hz resolution.

## ► PCI-755-VG2 Technical Specifications

### Specifications

- Full-size PICMG 1.0 Single Board Computer
- PCI Local Bus Specification, Rev. 2.3 compliant

### Processors

- Single Processor with Intel® Land Grid Array 775 (LGA775) package
- Intel® Pentium® 4 Processor or Celeron® D with 1MB L2 cache
- 533/800MHz Front Side Bus
- Auto-selection of CPU frequency and core voltage
- Intel Hyper-Threading Technology supported

### Chipsets

- Intel® 915GV Graphic Memory Controller Hub (GMCH)
- Intel® I/O Controller Hub 6 (ICH6)

### BIOS

- Support for 4 Mb Firmware Hub.
- BIOS write protection provides anti-virus capability
- DMI BIOS Support
- Supports system soft power-off (via ATX power supply)
- Supports PXE Remote Boot
- Supports boot from USB Device

### System Memory

- Supports unbuffered, non-ECC, DDR2 DIMM 400/533MHz up to 2 DIMMs
- Maximum 2GB System Memory

### Graphics

- GMCH analog RGB output on the faceplate.
- Resolution up to 2048 x 1536 at 75Hz

### Form Factor

- PICMG 1.0 Full-size Single Board Computer
- Dimensions: 338.6mm (L) x 122mm (W) (13.33"x4.8")

### PCI Support

- PCI Golden Fingers

### Bus on PICMG 1.0

- Supports ISA Interface, I/O & IRQ supported only, does not support DMA & bus master
- Supports one PCI bus (32-bit at 33MHz)

### Clock Generator

- Integrated Circuit Systems ICS954101 (CK410)

### I/O Controller

- LPC Super IO controller ITE IT8712F/HX

### On-board LAN

- Onboard Marvell 88E8053 supports 2 GbE ports on the faceplate.
- Support IEEE 802.3x compliant flow control
- Support IEEE 802.3ab Auto-Negotiation of speed, duplex and flow control

### Peripheral Support

- One IDE Channel supports two devices
- Supports 4 Channels SATA-150 devices
- Compliant with USB Specification Rev. 2.0, 2 ports (4x internal, 1x external)
- Two 16550 UART compatible serial ports with ESD protection
- One internal bi-direction parallel port with SPP/ECP/EPP mode
- One internal Floppy port
- PS/2 Keyboard and Mouse port on bracket
- One CPU FAN connector for FAN speed controllable

### Watchdog Timer

- Two-stage watchdog timer

### Miscellaneous

- Voltage, fans & CPU/System temperature monitoring.
- Fan speed control and monitoring



Standard CPU cooler



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