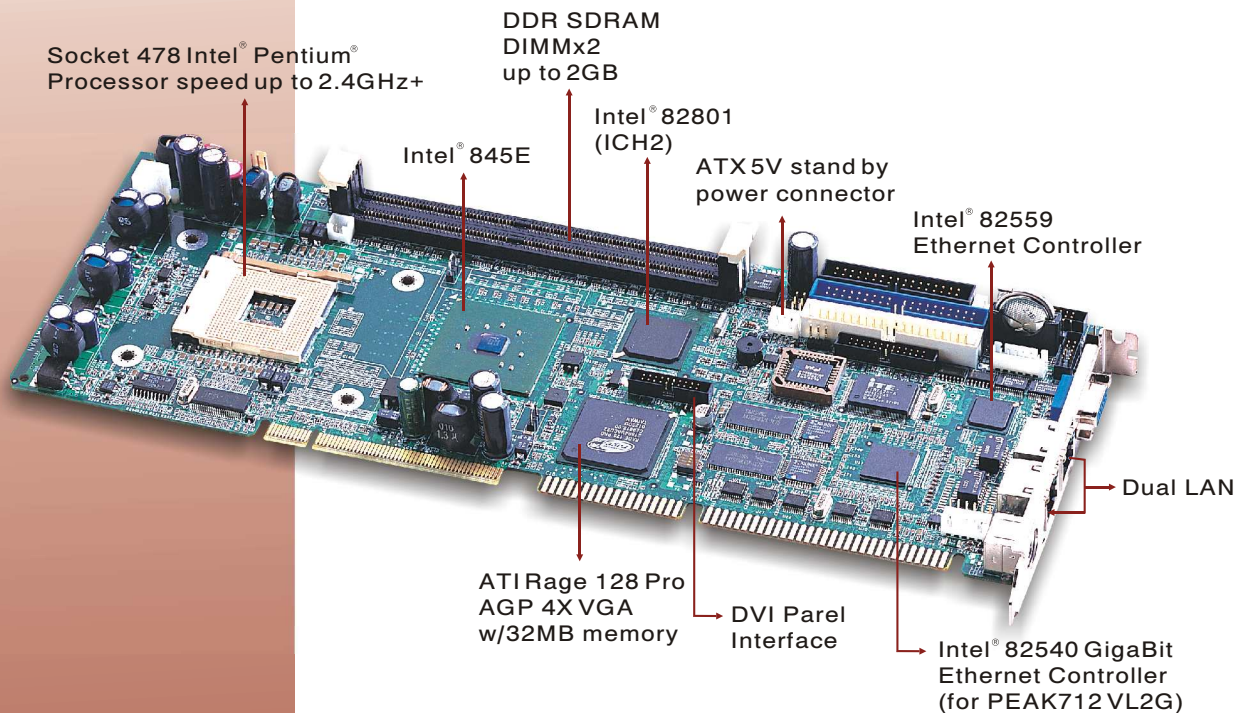


# PEAK712VL2(G)

## Full-size Socket 478 Intel® Pentium® 4 Processor CPU Card w/VGA/Dual LAN/DDR



### *Features*

- ◆ Socket 478 Intel® Pentium® 4 processor with 400/533MHz system bus up to 2.4GHz+
- ◆ Max. 2GB SDRAM, DDR DIMM x2
- ◆ Intel® 845E Chipset
- ◆ ATIRage 128 Pro AGP 4X VGA
- ◆ Intel® 82559 Ethernet 2 (for PEAK 712VL2) or Intel® 82559 x1 + Intel® 82540 x1 GigaBit LAN Support (for PEAK 712VL2G)



# PEAK712VL2(G)

## Specifications

### System Architecture

- Full size SBC with PICMG (PCI+ISA) Golden finger
- AGP 2.0 compliant
- PCI V2.2 compliant
- PICMG 1.0 (Rev.2.0) compliant

### CPU Support

- Intel® Pentium® 4 processor with 256K/512K L2 cache on die
- Socket 478 CPU featuring 400MHz/533MHz system bus, CPU speed up to 2.4GHz or above

### Main Memory

- DDR DIMM x2 Support Max Memory size up to 2GB (DDR200/DDR266)
- ECC support (single bit error correction/Multiple bit errors reporting)
- Only support for (No Registered) DIMM

### BIOS

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- Advanced configuration & Power Interface support
- 2/4M bits flash ROM

### Chip Set

- Intel® 845E (MCH)
- Intel® 82801x 1 I/O Controller Hub (ICH2)
- Firmware Hub (FWH) 4M bits flash ROM x1
- PCI V2.2 compliant

### On Board LAN

- Intel® 82559 Ethernet controller x 2 for PEAK 712VL2
- (Intel® 82559 controller x1 + Intel® 82540 controller x1) for PEAK 712VL2G
- 10 Base T/100 Base TX support, full duplex; Intel® 82540 support for 10 Base T/100 Base TX / (1000 Base-T for PEAK 712VL2G only)
- Compliant with PCI V2.1/V2.2, IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE802.3y, IEEE802.3ab
- Drivers support: DOS/Windows®, Windows® 95/98/2000, Windows® NT, Netware 5.0, Linux
- RJ45 with LED connector x 2

### On Board VGA

- ATI Rage 128 Pro (Ultra 4XL) VGA Controller, 1.5V AGP 4X Interface
- 32MB VGA Memory on Board
- Fully PC 98 and PC 99 Compliant
- 15 pin CRT connector x 1
- DVI (TMDS) box header x 1

### On Chip I/O (ICH2)

- On board USB port x 2
- Ultra DMA33/66/100 support, 40-pin connector x2. Two pins power connector for DOM (Disk On Module)

### On Board I/O

- ITE 8712F-A Super I/O
- SIO x 2, with 2 x 16C550 UARTs, 10-pin header x 2
- PIO x 1, bi-directional, EPP/ECP support, 26-pin connector x 1
- Floppy Disk controller: 34-pin connector x 1
- 6-pin mini DIN connector x 1, for PS/2 keyboard/mouse, 5-pin connector x 1 (for external keyboard)
- On Board buzzer x 1

- GPIO (4 in 4 out)
- On board 2-pin header for I<sup>2</sup>C
- On board 2-pin header for reset SW / 2-pin for IDE active LED / 2-pin ATX power SW
- One 3-pin power header for 3-pin Power Cable connect to Backplane Board to support ATX Power On function.
- On board 4-pin Additional Power Source Input
- AC97 output, 10-pin header x 1

### System Monitor

- Derived from SuperIO ITE 8712F-A to support system monitor.
- 8 voltage (For +1.8V, +3.3V, +5V, -5V, +12V, -12V, Vcore and Vcc5V Stand-By)
- One Fan speed for CPU
- Temperature x 2 (one for CPU internal use, another for external system use)

### ACPI Function

(only when 3-pins Power cable connect to Backplane which connect with ATX Power Source)

- Soft Power off
- Power On by LAN
- Power On by Keyboard
- Power On by Ring

### Real Time Clock

- On chip RTC with battery back up
- External Li Battery x 1

### Watchdog Timer

- Watchdog timeout can be programmable by Software from 1, 2, 4, 8, 16, 32, 64 seconds

### PCI to ISA Bridge & ISAMAX Support

- ITE 8888F x 1 PCI to ISA Bridge
- Provide 64mA high driving capability to maximize ISA signals for support ISA cards up to 20 on the backplane ISA Slot.

### Dimensions

- 338.58mm(L) x 122mm(W)

### Power Requirements

Voltage	Maximum
+5V	10A
+12V	12A
-12V	500mA

### Environments

- Operating temperatures: 0°C to 60°C
- Storage temperatures: -20°C to 80°C
- Relative humidity: 10% to 90% (Non-condensing)

### Certification

- CE approval
- FCC Class A

## Order Information

### PEAK712VL2

- Full-size Socket 478 Intel® Pentium® 4 Processor CPU Card w/VGA/DDR/Dual LAN (Intel® 82559 + Intel® 82559)

### PEAK712VL2G

- Full-size Socket 478 Intel® Pentium® 4 Processor CPU Card w/VGA/DDR/Dual LAN (Intel® 82559 + Intel® 82540)