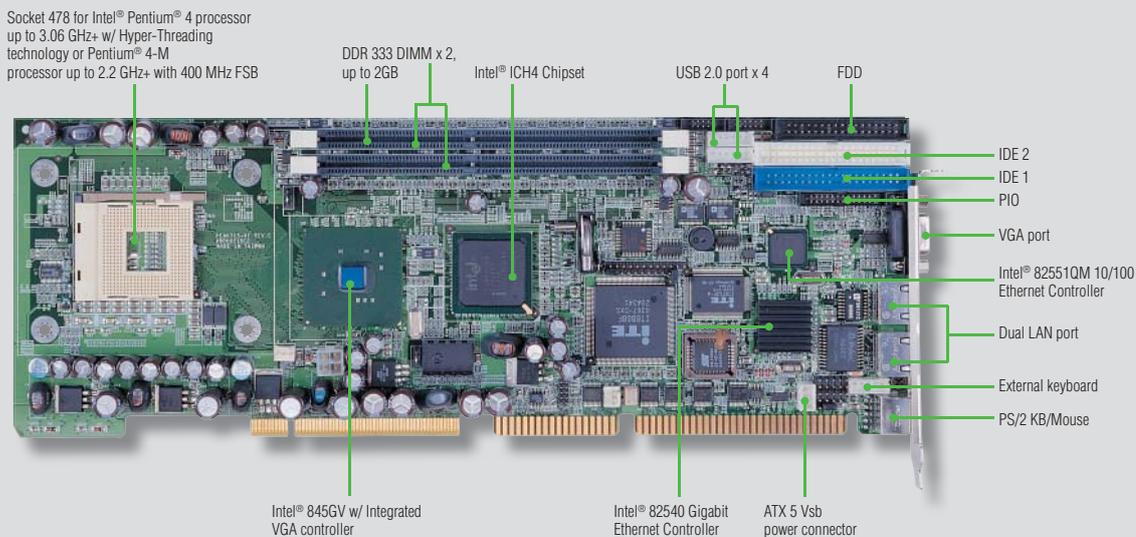


# PEAK 715VL2-HT

Intel® Socket 478 Pentium® 4/Celeron® with  
VGA and Dual LAN



## Main Features

- ◆ Intel® Pentium® 4 up to 3.06 GHz with 400/533 MHz FSB, Hyper-Threading Technology or Intel® Pentium® 4-M
- ◆ Intel® 845GV/ICH4 Chipsets
- ◆ 184-pin DIMM x 2, Supports DDR 266/333 SDRAM Memory up to 2GB
- ◆ Integrated VGA with 64 MB Shared Memory
- ◆ 1 x Intel® Gigabit Ethernet with 1 or 2 x Intel® 10/100 LAN
- ◆ 4 x USB 2.0 port

## Product Overview

The full-size PEAK 715VL2-HT SBC Series features Socket 478 for Intel® Pentium® 4/Celeron® processors with 400/533 MHz FSB with Hyper-Threading Technology. The PEAK 715VL2-HT series incorporate an Intel® 845GV chipset that supports un-buffered non-ECC DDR 200/266/333 MHz memory up to 2GB maximum and an integrated graphic controller with shared 64 MB memory.

The South Bridge ICH4 offers Ultra ATA 100, a parallel port, and other versatile I/O ports, such as two serial ports, four USB ports, dual LAN port, audio interface, and more. The PEAK 715VL2-HT Series with performance, functionality and I/O flexibility target industrial applications.

## Specifications

### CPU Support

- ◆ Socket 478 for Intel® Pentium® 4/Celeron® processor up to 3.06 GHz and greater with 400/533 MHz FSB
- ◆ Supports Hyper-Threading technology
- ◆ Supports Intel® Pentium® 4-M processor up to 2.4 GHz and greater with 400 MHz FSB

### Main Memory

- ◆ 2 x 184-pin DIMM, up to 2GB Unbuffered Non-ECC DDR 200/266/333 SDRAM memory

### Chipset

- ◆ Intel® 845GV
- ◆ 1 x Intel® 82801DB I/O Controller Hub (ICH4)

### BIOS

- ◆ Award System BIOS
- ◆ Plug & Play support
- ◆ APM (Advanced Power Management) support
- ◆ ACPI (Advanced Configuration & Power Interface) support
- ◆ 4 Mbit flash ROM

### On-board LAN

- ◆ 2 x Intel® 82551QM 10/100 Fast Ethernet controllers for PEAK 715VL2-HT
- ◆ Full duplex compliance with IEEE802.3, IEEE802.3u, IEEE802.3x, IEEE 802.3y, IEEE 802.3ab
- ◆ 2 x RJ45 with LED connector

### Display

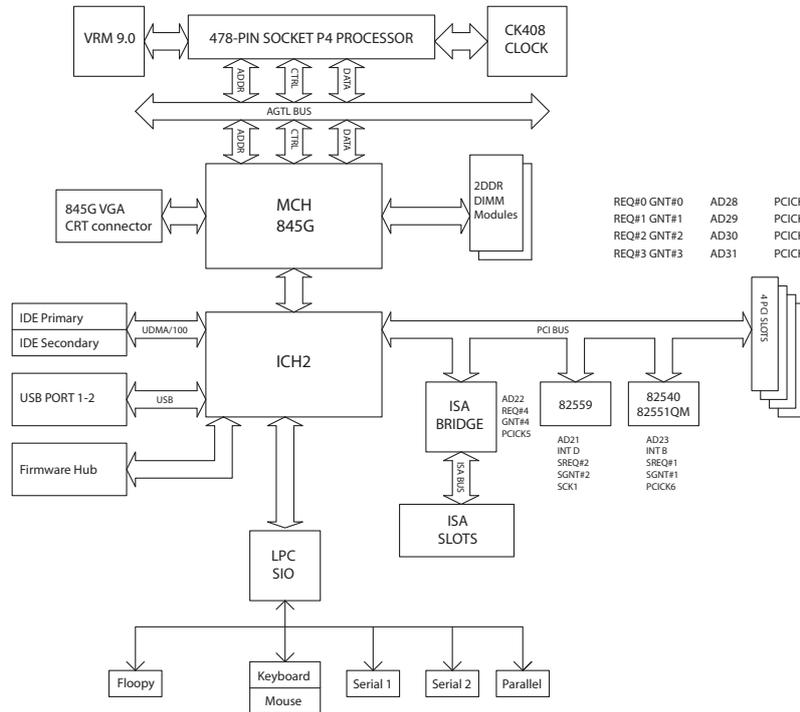
- ◆ Intel® 82845GV chipset integrated VGA controller
- ◆ 64 MB of VGA system memory

### I/O Interface

- ◆ Built-in ITE 8712F-A Super I/O chipset
- ◆ 4 x USB 2.0 port
- ◆ HDD: 2 x 40-pin connector. Ultra DMA 33/66/100 support
- ◆ Serial port: 2 port with 2x5 pin header
- ◆ Parallel: 1 x 26-pin connector, supports EPP/ECP
- ◆ FDD: 1 x 34-pin connector
- ◆ Video: 1 x 15-pin CRT connector
- ◆ PS/2 Keyboard/Mouse: 1 x 6-pin Mini-DIN connector
- ◆ External keyboard: 1 x 5-pin connector
- ◆ 1 x Buzzer
- ◆ GPIO (4 in, 4 out)
- ◆ I2C: 1 x 2-pin header
- ◆ Reset SW: 1 x 2-pin header
- ◆ IDE active LED: 1 x 2-pin header
- ◆ ATX power SW: 1 x 2-pin header
- ◆ Power cable connected to backplane board to support ATX power on function: 1 x 3-pin power header
- ◆ Additional power source input: 1 x 4-pin header
- ◆ I/O On Bracket: 1 x VGA DB-15 connector, 2 x RJ45 Ethernet LAN port, 1 x Mini-DIN for Keyboard/Mouse



## Block Diagram



### Watchdog Timer

- Programmable Watchdog timer from 1 to 128 seconds

### On-board RTC

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

### Disk On Module

- HDD: 2 x 40-pin connector; Ultra DMA 33/66/100 support
- IDE active LED: 1 x 2-pin header

### ISA Support

- ITE 8888F x 1 PCI to ISA Bridge
- Provides 64 mA high driving capability to maximize ISA signals and supports up to 20 ISA cards on the backplane ISA Slot

### System Monitor

- Derived from Super I/O ITE 8712F-A to support system monitor
- 8 voltage (For +1.5 V, +3.3 V, +5 V, -5 V, +12 V, -12 V, Vcore and Vcc 5 V standby)
- 2 fan speed (one is for CPU, one is for system)
- 2 temperature (one is for internal CPU, one is for external system)

### Power Input

- Power source from backplane through PCI/ISA golden finger
- Supports both AT or ATX power supplies
- +3.3 V is converted from +5 V and not directly from backplane or power supply
- +5 Vsb (standby power) is connected from backplane through 3-pin connector
- 4-pin +12 V power input connector

### Power Requirements

- Power supply maximum consumed power on SBC:
- 5 V: 4 A
- 12 V: 6.5 A
- 3.3 V: 0.6 A
- 5 Vsb: 0.5 A

### Dimensions

- 338.58mm (L) x 122mm (W) (13.3" x 4.8")

### Environment

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

### Certifications

- CE approval
- FCC Class A

## Ordering Information

### • PEAK 715VL-HT(LF) (P/N: 10P0715HT02X0)

Full-Size Socket 478 Intel® Pentium® 4/Celeron®/Pentium® 4-M processor VGA/DDR/LAN (Intel® 82551QM 10/100 Ethernet Controller)

### • PEAK 715VL2-HT(LF) (P/N: 10P0715HT01X0)

Full-Size Socket 478 Intel® Pentium® 4/Celeron®/Pentium® 4-M processor 2/VGA/DDR/Dual LAN (2 x Intel® 82551QM 10/100 Ethernet Controllers)