

PEAK 735VL2(G)

Full-Size Socket 478 for Intel® Pentium® 4 Processors up to 3.2 GHz 400/533/800 MHz FSB

RoHS
Compliant

Main Features

- Socket 478 for Intel® Pentium® 4 processor up to 3.2 GHz with 400/533/800 MHz FSB
- Intel® 865GV/ICH5 Chipset
- 184-pin DIMM x 2, support DDR 266 / 333 / 400 SDRAM memory up to 2 GB
- Intel® 82547Ei GbE controller & Intel® 82551 QM & 82562E X 10 /100 Ethernet Controller
- Serial ATA port x 2
- USB 2.0 port x 2

Product Overview

The PEAK 735VL2 Series is a full-size SBC featuring Socket 478 for Intel Pentium 4 processors with 400/533/800 MHz FSB, various frequencies and L2 caches. The product incorporates an Intel 865GV (GMCH)/ICH5 chipset that supports unbuffered DDR 266/333/400 MHz memory up to 2 GB maximum, an integrated graphic controller with shared 64 MB memory, LVDS LCD and dual display support. The South Bridge ICH5 chipset offers two SATA, Ultra ATA 100, parallel and floppy ports, and other versatile I/O ports such as two serial ports, two USB ports, dual LAN ports, an audio interface, and others.

The PEAK 735VL2 Series offers a range of processor choices and versatile I/O ports and is a powerful Pentium 4 solution for demanding industrial applications.

Specifications

CPU Support

- Intel® Pentium® processor with 1MB or 256/512 KB L2 Cache On Die
- mPGA478 socket supports 400/533/800 MHz system bus, CPU speed up to 3.4 GHz
- Supports Hyper-Threading technology

Main Memory

- 184-pin DIMM x 2, supports DDR 266/333/400 memory up to 2 GB
- Dual 64-bit DDR channels, 3.2 GB/s bandwidth per channel
- Supports un-buffered and non-ECC DIMMs only

Chipset

- Intel® 865GV (GMCH)(Intel®865G for RoHS Version)
- Intel® ICH5 (I/O controller Hub)
- FWH 4 Mbit flash ROM x 1

BIOS

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- ACPI 2.0 compliant
- 4 Mbit flash ROM

On-board LAN

- Intel® 82547Ei Gigabit Ethernet controller (dedicated by CSA port directly from the Intel® 865GV GMCH) and Intel® 82551QM 10/100 Ethernet controller x 1 for PEAK 735VL2G
- Intel® 82551QM 10/100 Fast Ethernet controller x 1 and Intel® 82562EX 10/100 Ethernet Controller x 1 for PEAK 735VL2

- Single Intel® 82551QM 10/100 Fast Ethernet controller for PEAK 735VL
- Compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3y, IEEE 802.3ab
- RJ45 with LED connector x 2

Display

- Intel® 865GV (GMCH) chipset with integrated graphics controller
- Hardware motion compensation assist for software MPEG/DVD decoding
- Access system memory
- 15-pin CRT connector x 1

I/O Interface

- On-board USB port x 2, USB 2.0 compliant
- Ultra ATA 100/66/33 support, 40-pin connector x 2, 2-pin power connector for DOM (Disk On Module)
- Serial ATA support, SATA connector x 2, data transfer bandwidth up to 150 MB/s
- 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 I2C
- On-board 5-pin header for IrDA

