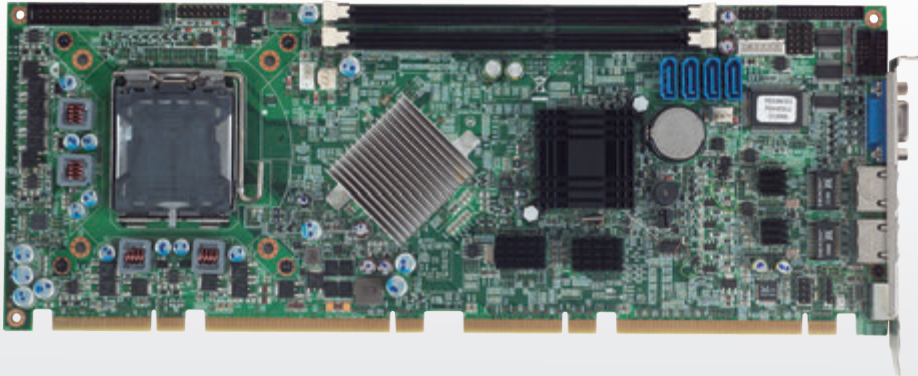


# PEAK 872VL2

PICMG 1.3 Intel® Core™ 2 Quad/Core™ 2 Duo LGA775 with  
Q45 2x PCI Express Gigabit LAN/ 6x SATA/ 8x USB 2.0



## Main Features

- Intel® LGA775 Core™ 2 Quad/ Core™ 2 Duo/ Pentium® D/ Celeron® Processors with 800/1066/1333 MHz
- Support Non-ECC Dual Channel DIMM-DDR3 800/1066 MHz up to 4GB
- 2x 82574 PCI Express Gigabit Ethernet LAN
- 6x SATA, 8x USB2.0, 2x COM, 1x Parallel, 1x Floppy
- Intel® Q45 GMCH Integrated Intel® GMA4500, Max 128 MB of DVMT for Graphics Memory Allocation
- Analog Display Supports up to 2045 X 1536 at 75 Hz for CRT

## Product Overview

PEAK 872VL2 is PICMG 1.3 full-size Single Board Computer (SBC), which supports Intel® Core™ 2 Quad/Core™ 2 Duo technology. Featuring Intel® Q45 and ICH10 DO chipsets, the PEAK 872VL2 supports socket LGA775 of Intel® Pentium® D/Celeron® processors with 800/1066/1333 MHz FSB supporting speeds up to 3.0 GHz and Hyper-Threading technology. The Intel® Q45 supports dual channel non-ECC DDR3 800/1066 MHz memory in two DIMM slots and an integrated graphics controller. The South Bridge ICH10 DO manages Ultra ATA/100 & SATA HDD ports, parallel port, and floppy port. Furthermore, it supports other versatile I/O ports such as two serial ports, eight USB ports, and two PCI Express Gigabit LAN ports.

NEXCOM offers the following 2U and 4U backplanes that support the PICMG 1.3 specification:

2U Backplane: NBP 2U220/NBP 2U040

4U Backplane: NBP 14570/NBP 14111/NBP 14210

The PEAK 872VL2 with Intel® Core™ 2 Duo technology and PCI Express LAN offer a great solution for advanced industrial application that require superb display and processing performance.

## Specifications

### CPU Support

- Support Intel® LGA775 Core™ 2 Quad, Core™ 2 Duo, Pentium® D/ Celeron® processors with 800/1066/1333 MHz
- Intel® Embedded Processor List (Intel® Longevity CPU):  
Intel® Core™ 2 Quad Processor (Q9400)  
Intel® Core™ 2 Duo Processor (E8400 & E7400 & E6400 & E4300)  
Intel® Pentium® Dual Core Processor (E2160)  
Intel® Celeron® Processor 440

### Main Memory

- 2x 240-pin DIMM, for up to 4GB dual channel Non-ECC DDR3 800/1066 SDRAM

### Chipset

- Intel® Q45 Graphic Controller Hub (GMCH)
- Intel® ICH10 DO

### BIOS

- Award system BIOS

- Plug & Play support
- Advanced Power Management and Advanced Configuration & Power Interface support

### On-board LAN

- 2x Intel® 82574L PCI Express Gigabit Ethernet Controllers
- Support Boot From LAN (PXE)
- 2x RJ45 with LED

### Display

- Intel® Q45 GMCH Integrated Intel® GMA4500, Max 128 MB of DVMT for Graphics Memory Allocation
- Analog display support up to 2048x1536 @ 75Hz for CRT

### Audio

- HD Audio Codec, Realtek ALC888
- 3x (1x 4pin) headers for Line-in/Line-out/MIC-in

### I/O Interfaces

- USB 2.0: 8 ports (4 on board, 4 to backplane)

