PEAK 876VL2

Main Features

- Intel® Core™ i5/ i3/ Pentium Integrated Graphics
- Support Intel® LGA1156, Core™ i5/ i3/ Pentium®
- 1x 82574 PCI Express Gigabit Ethernet
- 1x 82578DM Gigabit Ethernet

- 6x SATA, 8x USB2.0, 2x COM, 1x Parallel
- Support Non-ECC Dual Channel DIMM-DDR3 1066/1333 MHz up to 8GB
- Intel® AMT 6.0

Product Overview

PEAK 876VL2 is PICMG 1.3 full-size Single Board Computer (SBC), which supports Intel® Core™ i5/i3/Pentium® processors with Hyper-Threading technology. The Intel® Core™ i5/i3/Pentium® supports dual channel non-ECC DDR3 1066/1333 MHz memory in two DIMM slots and a Core™ i5/i3/Pentium® integrated graphics controller. The Q57 Express Chipset PCH manages SATA HDD ports, parallel port. Furthermore, it supports other versatile I/O ports such as two serial ports, eight USB ports, and two PCI Express Gigabit LAN ports. The PEAK 876VL2, with Intel® Core™ i5/ i3/ Pentium® and PCI Express LAN, offers a great solution for advanced industrial application that requires superb display and processing performance.

Specifications

CPU Support
- Intel® LGA1156, Core™ i5/ i3/ Pentium®

Main Memory
- 2x 240-pin DIMM, for up to 8GB dual channel Non-ECC DDR3 1066/1333 SDRAM

Chipset
- Intel® Q57 Express Chipset PCH

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

On-board LAN
- 1x Intel® 82578DM PHY for AMT 6.0
- 1x Intel® 82574L PCI Express Gigabit Ethernet
- Support boot from LAN (PXE)
- 2x RJ45 with LED

Display
- Intel® Core™ i5/ i3/ Pentium® processors Integrated graphics
- Analog display support up to 2048x1536 @ 75Hz for CRT

I/O Interfaces
- USB 2.0: 8 ports (2 on board, 4 to backplane), 2 ports through I/O Bracket
- Serial port: 2 port, with 2x5pin headers (COM 1 and COM 2)
- SATA HDD: 6 ports, Support RAID 0/1/5/10 and Intel® Matrix Storage
- Parallel port: 1 x 26-pin connector
- IrDA: 1x 5pin header
- GPIO: Supports 4 sets general purpose I/O each with TTL level (5 V) interface
- On-board buzzer x 1
- Power LED/Power On/Reset/SMBUS: 2x 8pin header
- 1x 4pin fan connector (for CPU); 1x 3pin fan connectors (for System)
- IPMB interface through PICMG 1.3 Golden-finger
- I/O On SBC Bracket
  1x VGA DB-15 connector
  2x RJ45 Gigabit Ethernet LAN port
  2x USB 2.0 Ports

Watchdog Timer
- 1 minute increments from 1 to 255 minutes
- 1 second increments from 1 to 255 seconds
- On-chip RTC with battery backup
- 1x External Li-Ion battery

Block Diagram

System Monitor
- 6 Voltages (+3.3V, +5V, +12V, Vcore) memory, VTT
- 3 Temperatures (For CPU and System)
- 2 FAN speed monitors (1 for CPU and 2 for System FAN)

Dimensions
- PICMG 1.3 SHB
- Dimension: 338.58mm (L) x 126.39mm (W) (13.3" x 4.9")

Power Input
- Power source from backplane through golden finger and AUX +12V
- Support ATX/AT power supplies
- +12V/ +5V/ +3.3V/ +5Vsb

Environment
- Board level operating temperatures: 0°C to 60°C
- Storage temperature: -20°C to 85°C
- Relative humidity: 10% to 90%, (Non-condensing)

Certifications
- CE approval
- FCC Class A

Ordering Information

- **PEAK 876VL2 (P/N:10P0876VL00X0)**

  PICMG 1.3 Full-Size SBC, Intel® LGA1156, Core™ i5/ i3/ Pentium® with Max 8GB, DDR3 DIMM, VGA