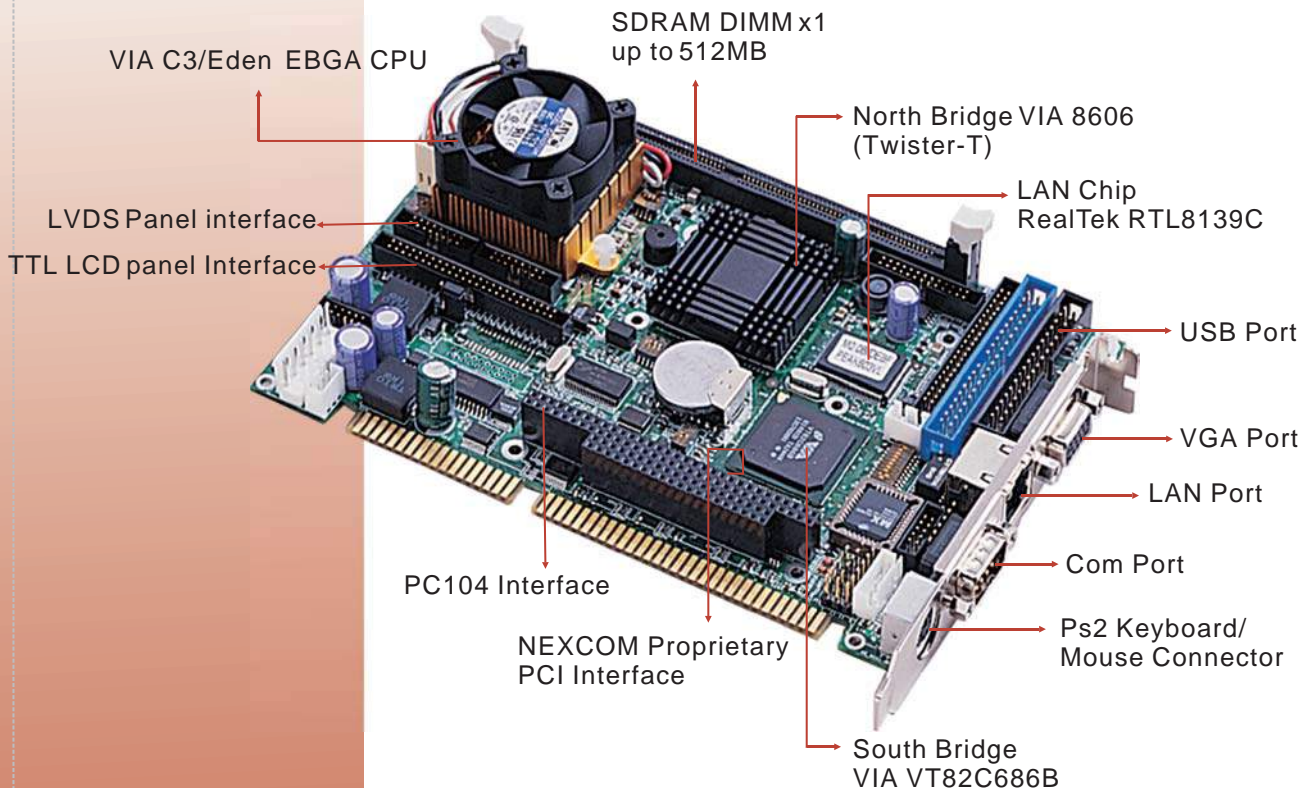


# PEAK 603VL

## Half-size VIA C3/Eden EBGa CPU Card with VGA/LAN/LVDS/TTL LCD support



### Features

- ◆ On-board VIA C3 800MHZ/Eden 667MHz processor
- ◆ VIA VT8606 chipset with integrated Savage4 2D/3D/Video Accelerator
- ◆ VIA VT82C686B super I/O controller
- ◆ Max-512MB SDRAM, 168-pin DIMM socket x1
- ◆ 3D graphic LVDS and TTL LCD interfaces
- ◆ Realtek 8139C 10/100 Base T/TX LAN
- ◆ Upgradeable SCSI interface via optional EBK SCSI/SCSI2/SCSI 160D
- ◆ Supports ISAMAX up to 20



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# PEAK 603VL

## Specification

### System Architecture

- Full-size SBC with ISA Golden finger for SBC application
- Small Form Factor with 4 screw holes for Embedded Application
- PCI V2.2 Compliant

### CPU Support

- Onboard VIA C3/ Eden Processor EBGA Package with 128KB Level 1 and 64KB Level 2 Cache
- 667MHz/800MHz CPU on-board with EBGA Package CPU FSB 100/133MHz

### Main Memory

- Support ECC/Unbuffered up to 512 MB(Max.)
- 168pin DIMM x1
- PC133 SDRAM Interface

### BIOS

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

### Chip Set

- VIA 8606(Twister-T) Chipset
- 100/133 MHz FSB support
- VIA VT82C686B
- PCI V2.2 compliant

### On Chip VGA

- VIA 8606 Integrated Savage4 2D/3D/Video Accelerator
  - < Optimized Shared Memory Architecture(SMA)
  - < 8/16/32MB frame buffer using system memory
  - < Single cycle 128-bit 3D architecture
  - < Full internal AGP 4x performance
  - < Next generation, 128-bit 2D graphics engine
  - < 2D/3D resolutions up to 1920 x 1440
  - < 3D Rendering Features
- Extensive LCD Support
  - < 36-bit DSTN/TFT flat panel interface with 256 gray shade support
  - < Integrated 110MHz LVDS interface
  - < Support for all resolutions up to 1600 x 1200
- Drivers support : Windows 95/98/2000, Windows NT4.0, Linux.
- 15Pin D-Sub VGA Output
  - < LVDS Interface Connector x 1
  - < 50 TTL LCD Interface Connector x 1

### On Board LAN

- RL 8139C Ethernet controller
- 10/100 base T/TX x1 support, full duplex
- Compliant with PCI V2.1, IEEE 802.3 IEEE 802.3U
- Drivers support : DOS/Windows, Windows 95/98/2000/XP, Windows NT4.0, Netware, SCO Open Server 5.0, Linux 7.2 or later Version
- RJ45 connector x1

### On Board I/O

- VT82C686B Integrated Server I/O
- SIO x2, with 2x16C550 UARTs, 10 pin header x1 (RS-232/422/485), D-Sub x1
- PIO x1, bi-directional, EPP/ECP support, 26 pin connector x1

- Floppy Disk controller: 34 pin connector x1
- Ultra DMA 33/66/100 support, 40 pin connector x1: 44 pin connector x1
- Support 2.5" or 3.5" HDD and DOM (Disk On Module)
- External Keyboard 5 pin connector x1; 6 pin mini DIN connector x1, for PS/2 keyboard/mouse
- On board USB Port x 2
- On board buzzer x1
- GPIO (4 in 4 out)
- On board 5 pin header for IrDA x1
- On board 2 pin header for reset SW, 5 pin for keylock, 2 pin header for power LED, 2 pin header for power SW, 3 pin Jst (5Vsb, PS-On, GND) to Backplane
- Power Input Connector for standalone operation

### On Board PCI/PC104 interface

- One 32 bit/33MHz NEXCOM proprietary PCI interface for NEXCOM EBK Module upgrade
- PC 104 Interface

### On Board RTC

- On chip RTC with battery back up

### System Monitor

- VT82C686B Integrated Voltage, Temperature, Fan Speed Monitor and Controller
- 5 positive voltage (one internal), 3 temperature (one internal) and 2 fan-speed monitoring

### ISAMAX Support

- Maximize ISA signals to support ISA cards up to 20

### Watch Timer

- 1, 2, 4, 8... 128 seconds time out intervals

### Dimensions

- 185mm(L) x 122mm(W)

### Power Requirements

- +5V: 8A(Max.)
- +12V: 500ma(max)

### 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

### PEAK 603VL

- Half-size Embedded on board EBGA VIA C3 800MHz processor CPU Card with VGA/LAN/LVDS/TTL LCD Support

### PEAK 603VL-LP6

- Half-size Embedded on board EBGA VIA C3 Eden 667MHz processor CPU Card with VGA/LAN/LVDS/TTL LCD Support