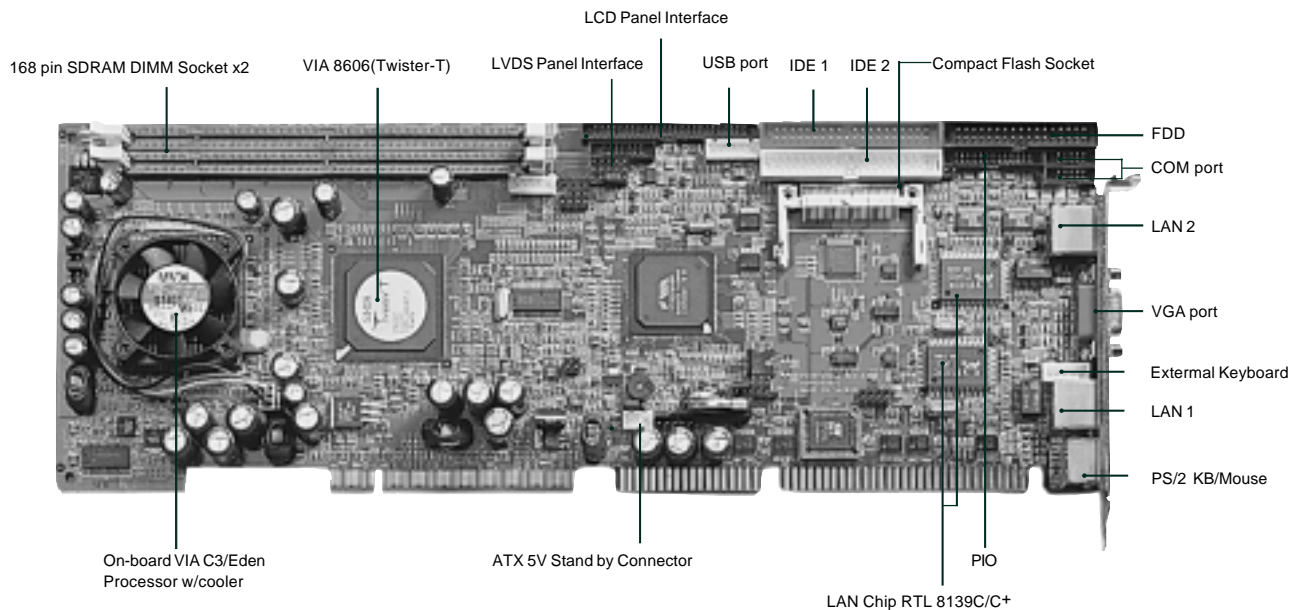


PEAK 639VL2

Full-sized PICMG SBC support VIA C3/
Eden with CPU/VGA/Dual LAN



Features

- ◆ On-board VIA C3 1GHz or Eden 667MHz processor (EBGA)
- ◆ VIA 86061686B Chipset
- ◆ 168-pin DIMM x 2, support SDRAM memory up to 1GB
- ◆ VIA 8606 integrated Savage4 VGA controller with 32MB share memory
- ◆ RealTek 8139C+ 10/100LAN x 2
- ◆ LVDS/TTL LCD interface support/Compact Flash support

Specifications

System Architecture

- ◆ Full-sized SBC with PCI/ISA goldplated DIMMs
- ◆ PICMG 1.0 (Rev.2.0) compliant

CPU Support

- ◆ On-board VIA C3 1GHz or Eden 667MHz processor (EBGA)
- ◆ Support 667MHz-1GHz CPU with 100/133 MHz FSB

Main Memory

- ◆ 168-pin DIMM x 2, support SDRAM memory up to 1GB

BIOS

- ◆ Award system BIOS
- ◆ Plug & Play support
- ◆ APM(Advanced Power Management) support
- ◆ ACPI(Advanced configuration &Power) Interface
- ◆ 2M bits flash ROM

Chipset

- ◆ VIA 8606(Twister T)100 /133 MHz North Bridge
- ◆ VIA VT82C686B PSIPC PCI super-I/O integrated peripheral controller

On-board 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
- ◆ High quality DVD video playback
- ◆ 2D/3D resolutions up to 1920X1440
- ◆ Extensive LCD Support
- ◆ 36-bit TFT flat panel interface with 256 gray shade support
- ◆ Integrated 110MHz LVDS interface
- ◆ Support for all resolutions up to 1600X1200
- ◆ 15pin D-sub VGA Output
- ◆ LVDS Interface Connector x1
- ◆ TTL LCD Interface Connector x1

On-board LAN

- ◆ RTL8139C+ Ethernet Controller x2 10 Base T/100 Base TX support, full duplex
- ◆ Complied with IEEE802.3, IEEE 802.3U
- ◆ RJ45 connector 2 (Pin-header for LED)

I/O interface

- ◆ SIO x 2, with 2x16C550 UARTs, 10 pin header x 2
- ◆ PIO x 1, bi-directional, EPP/ECP support, 26 pin connector x 1
- ◆ Floppy Disk controller: G34 pin connector x 1
- ◆ Ultra DMA33/66/100 with 40 pin connector x 2 (2pin power header for DOM)



PEAK 639VL2

- ◆ On-board Compact Flash Socket x1
- ◆ External Keyboard 5 pin connector x 1
- ◆ PS/2 keyboard/mouse: 6-pin Mini-DIN connector x1
- ◆ USB box header x1, support 2 usb ports via Nexcom's proprietary cable
- ◆ GPIO (4 in/ 4out)
- ◆ On-board 5 pin header for IrDA
- ◆ On-board buzzer x 1
- ◆ On-Board 2 pin header for reset SW / 2 Pin for Power LED / 2 pin power SW
- ◆ Power cable connected to backplane to support ATX power-on function: 3-pin header x1
- ◆ AC 97 Pin Header Reserved

System Monitor

- ◆ Derived from VIA VT82C686B integrated super I/O to support system monitor
- ◆ 5 positive voltage
- ◆ Monitor CPU fan speed, CPU temperature and system temperature
- ◆ Drivers support: Windows® 95/98/2000

Real Time Clock

- ◆ On-chip RTC with back-up battery

Watchdog Timer

- ◆ 1~64 seconds time-out intervals

ISAMAX support

- ◆ Support max. 20 ISA slots on the backplane

Dimensions

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

Environment

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

Certification

- ◆ CE
- ◆ FCC

Power Requirements

Voltage	Max
+5V	8 A
+12 V	0.5 A
+5Vsd	0.5 A

Ordering Information

- ◆ **PEAK 639VL2-1** Full-size VIA C3 1GHz on board processor with LVDS/TTL LCD support/Dual 10/100 Fast Ethernet LAN
- ◆ **PEAK 639VL2-LP6** Full-size VIA Eden 667MHz on board processor with LVDS/TTL LCD support/Dual 10/100 Fast Ethernet LAN

