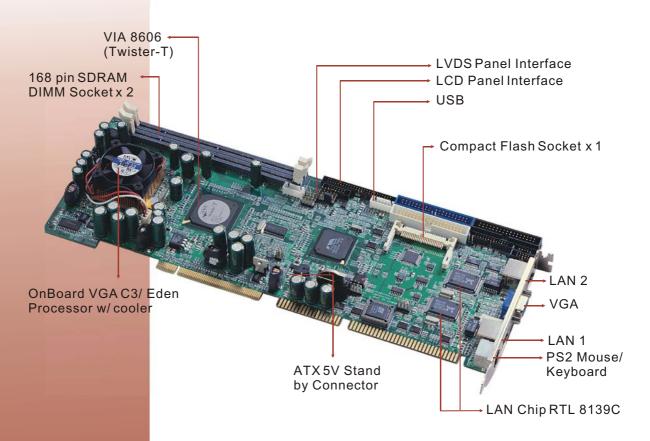


Full-size VIA C3/Eden Processor on Board CPU Card w/VGA/LVDS/TTL LCD, Support Dual LAN



Features

- ♦ On board VIA C3800MHz/1GHz or Eden 667MHz processor
- ♦ VIA 8606 Chipset with intergrated Savage42D/3D/Video Accelerator
- ♦ VIA VT82C686B Super-I/O controller
- Realtek 8139C LAN x2
- ◆ 168 pin SDRAM DIMM Socket x 2, Max.1GB
- ♦ LVDS/TTL LCD interfaces support, compact flash support







NEXCOM International Co., LTD. 18F, No. 716, Chung-Cheng Road, Chung-Ho, Taipei Hsien 235, Taiwan, R.O.C.

18F, No. 716, Chung-Cheng Road,Ch Taipei Hsien 235, Taiwan, R.O.C. Tel:886-2-8228-0500 Fax:886-2-8228-0506 e-mail: nexcom@nexcom.com.tw NEXCOM (UK) LTD.

Cromwell Business Center 12 Howard Way, Newport Pagnell Milton Keynes, MK 16 9QS U.K Tel: 44 -1908-2188 77 Fax: 44 -1908-21 88 67 e-mail: sales@nexcomuk.co.uk USA/ NEX COMputers Inc. 46706 Fremont Blvd.

46706 Fremont Blvd. Fremont, CA 94538, U.S.A Tel: 1-510-656-2248 Fax: 1-510-656-2158 Japan/
NEXCOM Japan Co., LTD.
10F, Nakagin-Shiroyama Bidg., 8-16-13,
Glnza Chuou-ku Tokyo, Japan 104-0061
Tel: 81-3-3524-4250
Fax: 81-3-3524-4252
e-mail: sales@nexcom-jp. Com

PEAK 639VL2

Specification

System Architecture

- Full size SBC with PICMG(PCI+ISA) Goldenfinger
- PCI V2.2 compliant
- PICMG 1.0 (Rev.2.0) compliant

On Board CPU

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

Main Memory

- Support 168 pin DIMM Socket x2, up to 1GB
- PCI 133 SDRAM types

- Award System BIOS
- Plug & Play support
- Advanced Power Management support
- Advanced Configuration & Power Interface support
- 2Mb flash ROM (Design for 4Mb or above)

Chip Set

- VIA 8606 (Twister T) 100/133 MHz North Bridge
- VIA VT82C686B PSIPCPCI SUPER-I/O INTEGRATED PERIPHERAL CONTROLLER

On Chip VGA

- VIA 8606 Integrated Savage4 2D/3D/Video Accelerator
 - Optimized Shared Memory Architecture (SMA)
 - 8 / 16 / 32 MB frame buffer using system memory
 - Single cycle 128-bit3D architecture
- Full internal AGP4x performance
- Next generation, 128-bit2D graphics engine High quality DVD video playback
- 2D/3D resolutions up to 1920x1440
- 3D Rendering Features
- Extensive LCD Support
 - 36-bit DSTN/TFT flat panel interface with 256 gray shade support
 - Integrated 110 MHz LVDS interface
 - Support for all resolutions up to 1600x1200
- Drivers support: Windows 95/98/2000, Windows NT4.0, Linux.
- 15 pin D-SubVGA Output,
- 16 pin Box Header for LVDS Interface Connector x 1
- 50 pin Box Header for TTLLCD Interface supportx 1

On Board Dual LAN

- RTL8139C Ethernet Controller x2
- 10 Base T/100 Base TX support, full duplex
- Complied with PCIV2.1, IEEE802.3, IEEE802.3U
- Drivers support: DOS/Windows, Windows 95/98/2000, Windows NT, Netware, SCO Open Server 5.0, Linux
- RJ45 connector 2 (Pin-header for LED)

On Board I/O

- VT82C686B INTEGRATED Super I/O:
 - (Integrated ISA Bus Controller with integrated DMA, timer, and interrupt controller
- Integrated Keyboard Controller with PS2 mouse support
- (Integrated DS12885-style Real Time Clock and Day/Month Alarm for ACPI
- Integrated USB Controller with root hub and four function

- Integrated UltraDMA-33/66/100 mastermode EIDE controller with enhanced PCI bus commands
- Distributed DMA support for ISA legacy DMA across the
- SIO x 2 (Pitch: 2.00mm), with 2x16C550 UARTs, 10 pin header x 2 (For RS-232) (Back-Side Reserved for 422/485)
- PIO x 1 (Pitch: 2.00mm), bi-directional, EPP/ECP support, 26 pin connector x 1
- Floppy Disk controller: 34 pin connector x 1
- UltraDMA-33/66/100 IDE with 40 pin connector × 2 (2pin power header for DOM)
- On board Compact Flash x 1
- External Keyboard 5 pin connector x 1; 6 pin mini DIN connector x 1, for PS/2 keyboard/mouse
- On board USB port × 2
- GPIO (4 in/4out)
- On board buzzer x 1
- On board 5pin header for IrDA
- On Board 2pin header for reset SW / 2 Pin for Power LED / 2 pin power SW
- 3 Pin Jst (5Vsb, PS-On, GND) for connect to Back plane support the ATX Power Mode
- AC 97 Pin Header Reserved

On Chip RTC

• On chip RTC with battery back up

System Monitor

- VT82C686B Integrated Voltage, Temperature, Fan Speed Monitor and Controller
- 5 positive voltage, 2 temperature (one internal) and 1 fanspeed monitoring

ISAMAX Support

• Maximize ISA signals to support 20 ISA cards

Watchdog Timer

• 1,2,4,8,16,32,64 seconds time-out intervals

Dimensions

• 338.58mm(L) x 122mm(W)

Power Requirements (Testing at CPU 800MHz; Memory: 512MB)

- +5V:8A (Max.)
- +12V: 500mA (Max.)
- +5Vsb: 800mA (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 639VL2

• Full-size On Board 800MHz CPU Card with LVDS/TTL LCD, Dual Realtek 8139C LAN

PEAK 639VL2-1

• Full-size On Board 1GHz CPU Card with LVDS/TTL LCD, Dual Realtek 8139C LAN

PEAK 639VL2-LP6

• Full-size On Board 667MHz CPU Card with LVDS/TTL LCD, Dual Realtek 8139CLAN



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• All specifications are subject to change without notice.