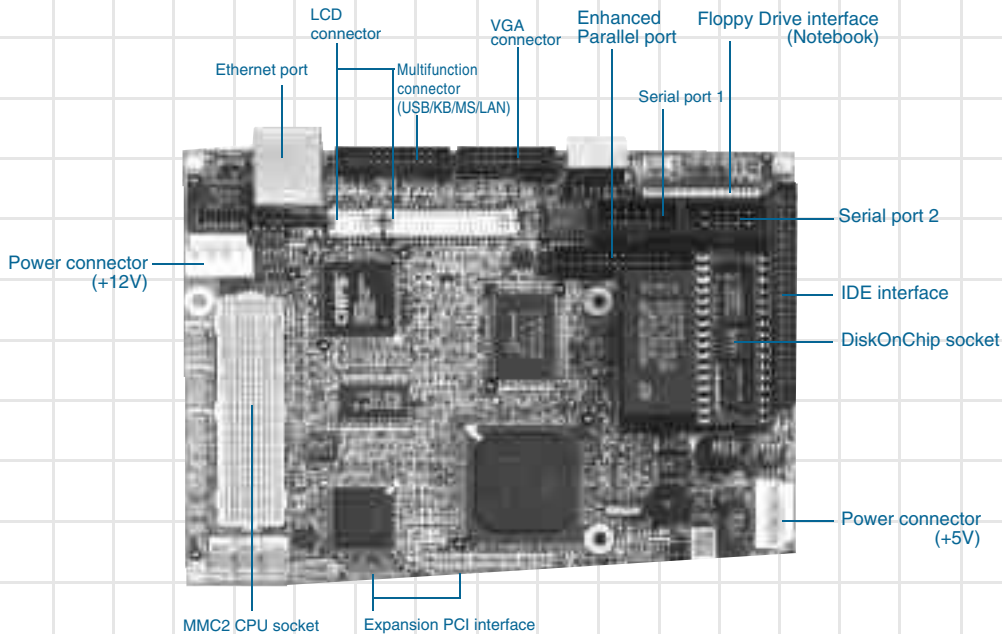


# VTC475432

## 3.5" MMC2 Pentium II/III Embedded Controller w/VGA/LAN

EMBEDDED CONTROLLERS SERIES

Smallest PII/III Engine w/ MMC2



### INTRODUCTION

The VTC475432 is a 3.5" embedded controller built with the unique MMC2 architecture, and support Intel Mobile Module (IMM) with Pentium II/III from 233MHz to 500MHz. The VTC475432 adopts the Mini C&T 69000 VGA/panel controller with the embedded 2 MB SDRAM. The Intel 82559 single-chip Ethernet controller is on board to support either 10Base -T or 100Base-TX that complies with the industry standard. In addition, the VTC475432 is built with PCI connector for future expansion.

### FEATURES

- Intel MMC2 Based CPU module support Pentium II/III up to 700MHz
- 256MB SDRAM (Max.) memory support, SO-DIMM x 1
- C&T 69000 VGA Controller with CRT/LCD support

- Intel 82559 10/100 Base Ethernet Controller
- On board PCI/ZV port expansion connector
- On board socket for DiskOnChip up to 144MB
- 2S1P, IDE x 1, FDC x 1

### SPECIFICATIONS

#### System Architecture

- Intel Mobile Module (IMM) based embedded controller
- MMC2 controller dedicated to Pentium II/III CPU
- All features on board (SSD, Ethernet, VGA, LCD Panel)
- Micro board with standard 3.5" drive form factor
- World's smallest Pentium III embedded controller

#### CPU Support

- Intel Mobile Module (IMM) MMC2 (400 pin) CPU support
- Intel Pentium II/III 233MHz to 700MHz





256/512KB L2 Cache on module

Intel 440BX AGP set on module

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**Main Memory**

SDRAM support

8MB to 256MB (Max.)

144pin SO-DIMM socket x 1

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**BIOS**

Award System BIOS

Plug & Play support

Advanced Power Management support

2M bits flash ROM

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**On Board VGA**

C&T 69000 VGA controller

TFT LCD/DSTN LCD/CRT control

2MB SDRAM on die

Maximum Res. Color & Refresh Rate

Resolution	Colors	Refresh Rate (Hz)
1280x1024	256	60
1024x768	16bits (High color)	85, 75, 60
800x600	24bits (True color)	85, 75, 60

Drivers support : Windows 95/98/2000,  
Windows NT4.0

15 pin CRT connector x 1, Universal LCD

Panel connector x 1

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**On Board LAN**

Intel 82559 Single Ethernet controller

10 Base T/100 Base TX support, full duplex

Complies with PCI V2.1, IEEE802.3, IEEE  
802.3U

Drivers support : DOS/Windows, Netware,  
Windows 95/98/2000, Windows NT4.0

RJ45 CRT connector x 1

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**On Board I/O**

Winbond 83977 Super I/O on board

SIO x 2(RS232/422/485 x 1, jumper selectable),  
10 pin connector x 2

PIO x 1, Bi-directional, EPP/ECP support, 26  
pin connector x 1

Floppy disk controller : 3.5" 720KB/1.2MB/  
1.44MB / 2.88MB support, 26 pin connector x 1

On chip enhanced IDE x 1: PIO up to mode 4,  
DMA master up to mode 2, 44 pin connector x 1

Keyboard, mouse controller : 6 pin mini DIN

connector x 1 (both KBD & mouse, PS/2 mode)

USB port x 1

IrDA pin reserved

On board buzzer x 1

On board power connector : 4 pin additional  
power connector x 2

2 pin header for reset SW x 1

5 pin for keylock x 1

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**On Board RTC**

High precision real time clock/calendar with  
battery back up

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**On Board Solid State Disk Socket**

On board reserved socket for DOC of M-  
system: 2MB~144MB, etc

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**Watchdog Timer**

1,2,4...64 seconds time-out intervals

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**Integrated Connector for**

LAN x 1, USB x 1, KBD x 1, Mouse x 1, 20 pin  
connector with housing

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**PCI Expansion**

PCI/ZV port expansion connector reserved

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**Dimensions**

145mm(L) x 102mm(W)

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**Power Requirements**

+5V : 6A (Max.)

+12V : 4A (Max.)

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**Environments**

Operating temperatures : 0°C to 60°C

Storage temperatures : -20°C to 80°C

Relative humidity : 10% to 90% (Non-  
condensing)

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**Certification**

CE approval

FCC Class A

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**MODEL AVAILABLE**

✓ **VTC475432** - 3.5" MMC2 Pentium II/III

Embedded Controller w/VGA/LAN