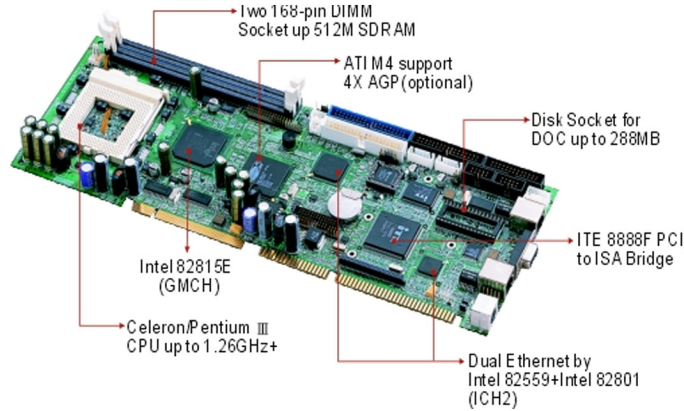


VTC17688

Full-size Socket 370 Celeron/Pentium III CPU Card



Introduction

The VTC17688 series is the most powerful full-size single board computer that combines Intel Celeron / Pentium III CPU running at 100/133 MHz FSB up to 1.26 GHz and Intel 815E chipset. Integrated internal graphics, LAN, and support for four USB ports, Ultra DMA 66 /100 IDE interface. Additional features include one more dual channel Ethernet to meet the network requirement and supporting DRAM maximum up to 512MB with 100/133MHz SDRAM interface. With on-board VOX proprietary PCI interface, the optional EBK SCSI 2 module designed with Adaptec AIC-7890 Ultra 2 SCSI controller or the EBK SCSI 160D module designed with Adaptec AIC 7899 Ultra 160 SCSI controller makes the VTC17688 series model a full function single board computer.

Feature

- Intel Socket 370 Celeron/Pentium III CPU running at 66/100/133MHz FSB up to 1.26 GHz.
- Support SDRAM up to 512MB(Max.),with 100/133MHz SDRAM interface.
- Dual Channel Ethernet by Intel 82801 (ICH2) chipset integrated LAN controller and Intel 82559 Ethernet Controller, support Alert-on-LAN.
- Intel 82815 (GMCH)chipset integrated Graphics controller.
On Board Optional ATI Rage Mobility M4 3D VGA accelerator, support 4X AGP.

Specifications

Systems Architecture

Full size SBC with PCI/ISA Golden finger
 Intel Socket 370 Celeron/Pentium III with 66/100/133MHz FSB
 PCI V2.1 compliant
 PICMG 1.0 (Rev.2.0) compliant

CPU Support

Intel Brand New Socket 370 FC-PGA Celeron / Pentium III CPU with
 128/256K cache on die, running at 66/100/133MHz FSB up to 1.26GHz
 Support streaming SIMD instruction

Main Memory

Support SDRAM up to 512MB (Max.)
 168 pin DIMM socket 2
 Support 100/133MHz SDRAM interface

BIOS

Award System BIOS
 Plug & Play support
 Advanced Power Management support
 Advanced Configuration & Power Interface support
 Jumperless for CPU FSB
 2M bits flash ROM, upgradeable to 4M bits

Chip Set

Intel 815E chipsets
 82815 1 Graphics and Memory Controller Hub (GMCH)
 82801 1 I/O Controller Hub (ICH2)
 82802 1 Firmware Hub (FWH)
 ITE 8888F 1 PCI to ISA Bridge

Onboard VGA

Intel 82815 (GMCH) chipset integrated with Graphics controller
 Hardware motion compensation assist for software MPEG/DVD
 decode
 15 pin CRT connector 1
 Optional TFT LCD/DSTN LCD/CRT control module through proprietary
 connector

On Board optional VGA

ATI Rage Mobility M4 3D VGA accelerator. 4X AGP
 Fully PC 98 and PC 99 Compliant.
 Integrated 8MB of SDR Memory, upgradeable to 16MB
 15 pin CRT connector 1, DVI interface connector 1

On Board LAN

Dual channel Ethernet support
 Intel 82801 (ICH2) chipset integrated LAN controller
 Intel 82559 Single Ethernet controller
 Alert-on-LAN by Intel 82801 (ICH2)
 10 Base T/100 Base TX support, full duplex
 Compliant with PCI V2.1, IEEE802.3, IEEE 802.3U
 Drivers support DOS/Windows, Windows 95/98/2000, Windows
 NT4.0, Netware, SCO Open Server 5.0, Linux.
 RJ45 connector 2

On Board Nexcom proprietary PCI interface

Reserved 32bit PCI interface for EBK SCSI / EBK SCSI2 / EBK SCSI
 160D module

On Board I/O

ITE 8712 Enhanced Super I/O on board
 SIO 2, with 2x16C550 UARTs, 10 pin header 2, Optional Rs422/
 485 1
 PIO 1, bi-directional, EPP/ECP support, 26 pin connector 1
 Floppy Disk controller 5.25" 360KB/1.2MB, 3.5" 720KB/1.2MB/
 1.44MB/2.88MB support, 34 pin connector 1

On chip enhanced IDE x 2, PIO up to mode 4, DMA master up to mode
 2, Ultra DMA/66/100 support, 40 pin connector 2, total 4 E.IDE
 devices support

On chip Keyboard, mouse controller, 5 pin connector x 1 (for other
 keyboard) 6 pin mini DIN connector 1, for PS/2 keyboard/mouse
 On board USB port 4 (6pin header 2)
 On Board buzzer 1
 2 On board 2 pin header for I C
 On board 5 pin header for IrDA
 On Board 2 pin header for reset SW, 4 pin for speaker, 5 pin for
 keylock, 2 pin power SW

ACPI Function

Soft Power off
 Wake On LAN
 Wake On Keyboard
 Wake On Ring
 RTC alarm wake up

On Board Solid State Disk Socket

On board reserved socket for DOC of M-systems 2MB~288MB, etc
 Power header beside IDE connector to support DOM

System Monitor

Derived from Super IO ITE 8712 to support system monitor.
 8 voltage (For +3.3V, +5V, -5V, 5V STBY, +12V, -12V, and Vcore 2)
 One Fan speed (For CPU)
 Two temperature
 Drivers support : Windows 95/98, Windows NT4.0/2000, Linux

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Bracket Connector

PS/2 connector 1 (for Keyboard/Mouse)
 RJ45 connector 2 (for LAN)
 15 pin D-type connector 1 (for VGA)
 Optional bracket for 2xCOM ; PIO + COM ; USB x2 + DVI

ISAMAX Support

Maximize ISA signals to support ISA cards up to 20

Watchdog Timer

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

Dimensions

338.58mm(L) 122mm(W)

Power Requirements

TBD for (Max. Typical)

Environments

Operating temperatures 0 to 60
 Storage temperatures -20 to 80
 Relative humidity 10% to 90% (Non-condensing)

Certification

CE Class A
 FCC Class A