EmCORE-i6318

CPU — Socket 370 : Pentium-*III* / Celeron, VIA Cyrix-III at FSB 66/100/133

CRT Display S3® Savage4

LCD Panellink daughterboard

LAN 10/100 Intel 82559

168-pin DIMM socket
VT8604 Northbridge and VT82C686B "Super" Southbridge
Ultra DMA 100 EIDE
CRT SVGA
10BASE-T 100BASE-TX
RS-232 COM1
Socket 370 FC-PGA/PPGA Intel® Pentium®III Intel® Celeron™ VIA Cyrix® III
KB MS
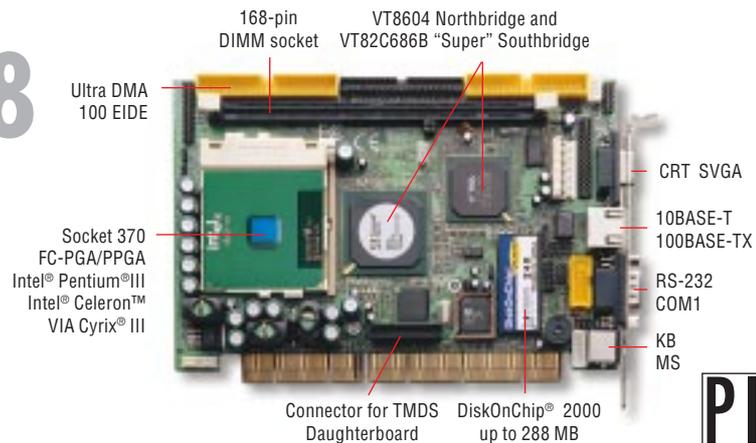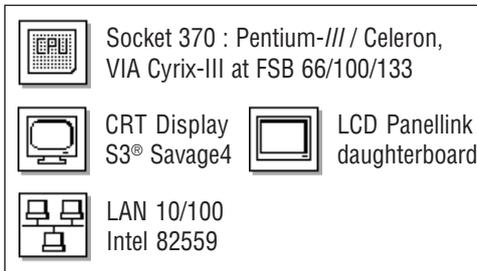Connector for TMDS Daughterboard
DiskOnChip® 2000 up to 288 MB

PISA

Socket 370, PISA-bus CPU Card | Pentium®-III / Celeron, CRT SVGA and Fast Ethernet

General Specifications

CPU
Socket 370 FC-PGA/PPGA supports :
Intel® Pentium®III, Intel® Celeron™,VIA Cyrix®III
with FSB @ 133 / 100 / 66 MHz

Chipset
VIA ProSavage™ PL133 (VT8604 Northbridge
and VT82C686B "Super" Southbridge)
integrates VIA Apollo Pro133A, S3® Savage4™
3D and S3® Savage2000™ 2D engines and
supports PC-133, 133MHz FSB and ATA-100

BIOS
AWARD Flash BIOS Green&Soft Off function,
LS120, Multiple boot function

Green Function
power saving supported in BIOS. DOZE /
STANDBY / SUSPEND modes, ACPI & APM

Secondary Cache
Integrated on CPU

DRAM Memory
up to 512 MB of SDRAM in one 168-pin
DIMM sockets (supports PC-133 SDRAM)

PISA Bus Interface
Half-size PCI and ISA

PCI Enhanced IDE with Ultra DMA
supports 2 ports and up to 4 ATAPI devices.
Ultra DMA transfer 33/66 and 100 MB/sec
one 40-pin (2.54 pitch) box header and
one 44-pin (2.0 pitch) box header

Watchdog Timer
128-level timer generates RESET or NMI when
your application loses control over the system.

Real-time Clock
built-in chipset with lithium battery backup for
10 years of data retention. CMOS data backup
of BIOS setup and BIOS default.

Flash Disk DiskOnChip®2000

Package
Single Chip Flash Disk in 32-pin DIP JEDEC

Capacity
up to 288 MByte

Data Reliability
ECC/EDC error correction

Memory Window
8 KByte

High Speed Multi I/O

Chipset
included in VT82C686B "Super" Southbridge

Serial Ports
one external high speed RS-232C port COM1
(DB9 on bracket), one internal high speed
RS-232C/422/485 port COM2 (jumper
selectable, 10-pin box header). Both with
16C550 compatible UART and 16 byte FIFO.

USB
2 onboard USB ver 1.0 ports (2x 5-pin header)

SIR Interface
onboard IrDA TX/RX port (5-pin header)

Floppy Disk Drive Interface
2 floppy disk drives, 5¼" (360 KB or 1.2 MB)
and 3½" (720 KB, 1.44 MB or 2.88 MB).

Bi-directional Parallel Port
SPP, EPP and ECP mode.

Keyboard and Mouse Connectors
external PS/2 KB/Mouse port (2-in-1 mini DIN)
onboard AT Keyboard port (5-pin box header)

Network Interface Controller

Chipset
Intel 82559

Type
10BASE-T / 100BASE-TX, autoswitching

Connector
external RJ-45 with LEDs on bracket

Display Controller

Chipset
4x AGP S3® Savage4™ 3D and S3® Savage
2000™ 2D engines integrated in VT8604
Supports up to 32 MB (shared) memory

Display Type
CRT (VGA, SVGA, XGA, SXGA)
LCD (optional, see LCD Daughterboard)

Connectors
external DB-15 for CRT on bracket and
42-pin header for LCD Display daughterboard

LCD Display Daughterboard (optional)
TMDS (Panel Link) with DVI interface and
20-pin connector for LCD monitor

Environmental and Power

Power Requirements
+5 V @ 4.7 A (typical), ±12 V ;
(FC-PGA Pentium III 800 MHz at 133 FSB
and 256 MB PC-133 SDRAM)

CPU Power
onboard PWM switching power supply for
autodetects CPU core voltage

System Monitoring and Alarm
CPU and System temperature, system voltage
and cooling fan RPM.

Board Dimensions
185 mm x 127 mm

Board Weight
0.28 Kg.

Operating Temperature
0 to 60°C (32 to 140°F)

Ordering

EmCORE-i6318/VL : Half-size, PISA-bus,
Socket 370, FC-PGA CPU Card for Pentium III
/ Celeron CPU with CRT SVGA and Fast
Ethernet (optional TMDS Daughterboard)

EmCORE-i6318/V : as above without Ethernet

EMD-TMDS/B : TMDS Daughterboard with
20-pin LCD Monitor Cable

FC C€ **Year 2000 Compliant**