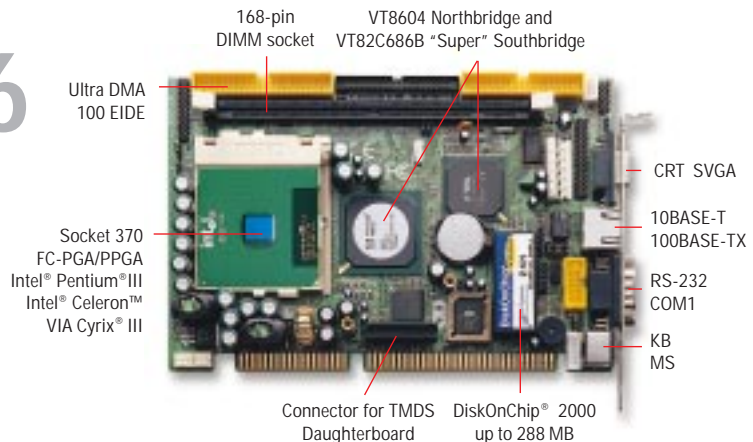
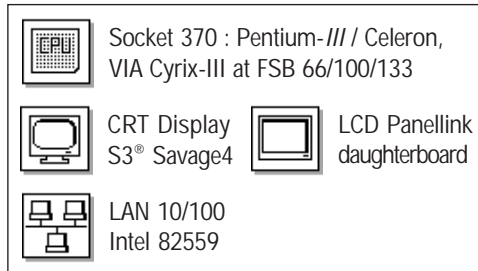


EmCORE-i6316



Socket 370 CPU Card

Pentium®-III / Celeron, LCD/CRT SVGA, 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)

Bus Interface

ISA (speed 8.3 MHz)

PCI Enhanced IDE with Ultra DMA

supports 2 ports and up to 4 ATAPI devices.
Ultra DMA transfer 33/66 and 100 MB/sec

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 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 @ 4.5 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 122 mm

Board Weight

0.26 Kg.

Operating Temperature

0 to 60°C (32 to 140°F)

Ordering

EmCORE-i6316/ML : Half-size, Socket 370,
Pentium III / Celeron PC-133 CPU Card
with CRT SVGA and Fast Ethernet

EmCORE-i6316/V : as above without Ethernet

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

