EmCORE-i6315

CPU	Socket 370 : Pentium-*III* / Celeron at FSB 66/100/133
	LCD / CRT optional
	16-bit Digital I/O
	LAN 10/100 Intel 82559
	AC97 3D Audio

Ultra DMA 100 EIDE

Socket 370 FC-PGA/PPGA Intel® Pentium®III Intel® Celeron™

3x RS-232
1x RS-232/422/485
4x USB
1x IRdA
16-bit DI/O
AC97 Digital Audio

10BASE-T
100BASE-TX

DiskOnChip® up to 288 MB

VT8605 Northbridge and VT82C686B "Super" Southbridge

PC/104-*Plus* connectors
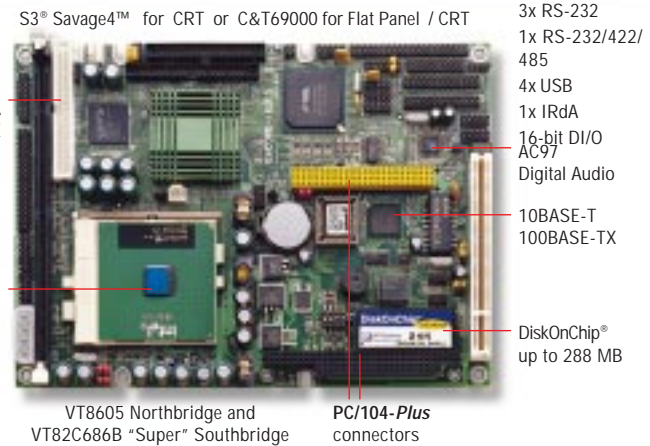
Pentium-III/Celeron | Flat Panel/CRT, Ethernet, Audio, 4S, DI/O, PC/104-*Plus*

General Specifications

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

Chipset
VIA ProSavage™ PM133(VT8605 Northbridge
and VT82C686B "Super" Southbridge)
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
PCI-bus and PC/104-*Plus* (PCI+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.

Network Interface Controller

Chipset
Intel 82559, 10/100 Mbps, autoswitching

Connector
10-pin onboard header

PC/104-*Plus* Interface

Bus types
104-pin ISA (8/16-bit) and 120-pin PCI (32-bit)

Digital I/O

16-bit GPIO, 8 independent GPI and 8
independent GPO programamble by software.

High Speed Multi I/O

Chipset
included in VT82C686B "Super" Southbridge

Serial Ports
3 high speed RS-232C ports (COM1,3,4) and
one high speed RS-232/422/485 port (COM2)
with +5V / +12V power pins for POS devices

USB Ports
four ver1.0 ports (two 2x5-pin headers)

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).

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

Keyboard and Mouse Connectors
one combined 10-pin header for KB/Mouse

Flash Disk DiskOnChip®2000

Package
Single Chip Flash Disk in 32-pin DIP JEDEC

Capacity
up to 288 MByte

Audio

Chipset
16-bit 3D AC'97 Audio controller integrated in
VIA686B. Soundblaster Pro and Direct Sound
compatible. LINE-in/out CD, Mic, Speakers

Connector
10-pin onboard header

Display Controller

OPTION 1
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)

OPTION 2
Chipset
CHIPS C&T69000 HiQVideo™ Accelerator
with 2 MB SDRAM on die

Display Type
CRT, TFT, DSTN, SSTN, EL, Plasma Quarter
VGA, VGA, SVGA, XGA and SXGA

Environmental and Power

Power Requirements
+5 V @ 4.8 A (typical), ±12 V ; (Pentium-*III*
at 866 MHz and 128 MB PC-133 SDRAM)

CPU Power
autodetect PWM switching power supply

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

Board Dimensions and Weight
203 mm x 146 mm (5.75" x 8.0"), 0.30 Kg.

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

Ordering

EmCORE-i6315/VL: 5¼" Socket 370
Pentium III / Celeron PC-133 Miniboard
Computer with AGP CRT SVGA, Fast Ethernet,
AC97 Audio, 16-bit Digital I/O,
4 Serial Ports and DiskOnChip socket
and **PC/104-*Plus*** interface

EmCORE-i6315/CL: same as above
with Flat Panel / CRT Display support

FSTX-LVDS-2 :
18-bit Flat Panel LVDS Daughterboard