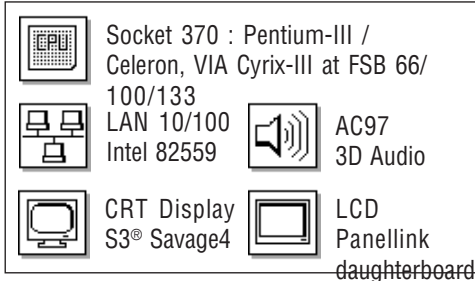


# HiCORE-i6311



## Socket 370 CPU Card Pentium®-III or Celeron, CRT/LCD, Ethernet and Audio

### 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 1 GB of SDRAM in two 168-pin  
DIMM sockets (supports PC-133 SDRAM)

**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 Disk DiskOnChip®2000

**Package**  
Single Chip Flash Disk in 32-pin DIP JEDEC

**Capacity**  
up to 288 MByte



### High Drive ISA64 bus (CTI ready)

**ISA Add-on**  
64 mA high drive buffer supports up to  
20 ISA based add-on cards

### 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, 10/100 Mbps, autoswitching

**Connector**  
external RJ-45 with LEDs on bracket

### Audio

**Connector**  
16-pin header for Audio daughterboard

**Audio Daughterboard (optional)**  
Soundblaster Pro and Direct Sound Ready  
AC97 Digital Audio controller. LINE-in/out CD-  
in, Mic-in and stereo speakers.

### Display Controller

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

**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**  
338 mm x 122 mm

**Board Weight**  
0.45 Kg.

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

### Ordering

**HiCORE-i6311/VL** : Full-size, Socket 370,  
FC-PGA CPU Card for Pentium III / Celeron  
CPU with High Drive ISA, CRT SVGA,  
Fast Ethernet and Audio

**HiCORE-i6311/V** : as above without Ethernet

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