

HAWK

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Embedded Pentium® based SBC with CRT/LCD, Audio and Ethernet

- Supports Intel Pentium® and AMD CPUs up to 233MHz MMX
- Up to 256MB DRAM
- 256 or 512KB L2 Cache (COAST)
- 0-144MB Flash options (DiskOnChip)
- Up to 512KB SRAM
- PCI Local Bus SVGA for LCD and CRT
- 800x600, 1024x768, 1280x1024 resolutions
- Soundblaster™ compatible 16 bit stereo codec
- 10Base-T NE2000 compatible Ethernet PCI interface
- ISA and PC/104 expansion
- Dual PCI EIDE drives
- Dual Floppy drives
- Dual USB ports
- 4 on-board powered Serial ports
- Bi-directional SPP/EPP/ECP parallel port
- Real-time clock with on-board battery
- Watchdog timer
- PS/2 Mouse and Keyboard connectors
- 8 Digital inputs & 8 Digital outputs
- Status LEDs
- Standard PC power connector

Blue Chip Technology's HAWK is a Pentium® based highly integrated multimedia single board computer that combines video, audio and network functions on a board the size of a 5.25" floppy drive.

HAWK is based on the Intel Triton II 430HX Chipset and supports Pentium® processors (Intel and AMD) to 233MHz MMX. The memory consists of up to 256MB of DRAM, 256KB or 512KB L2 Cache (COAST), up to 512KB SRAM and Flash options from 2MB to 72MB via DiskOnChip.

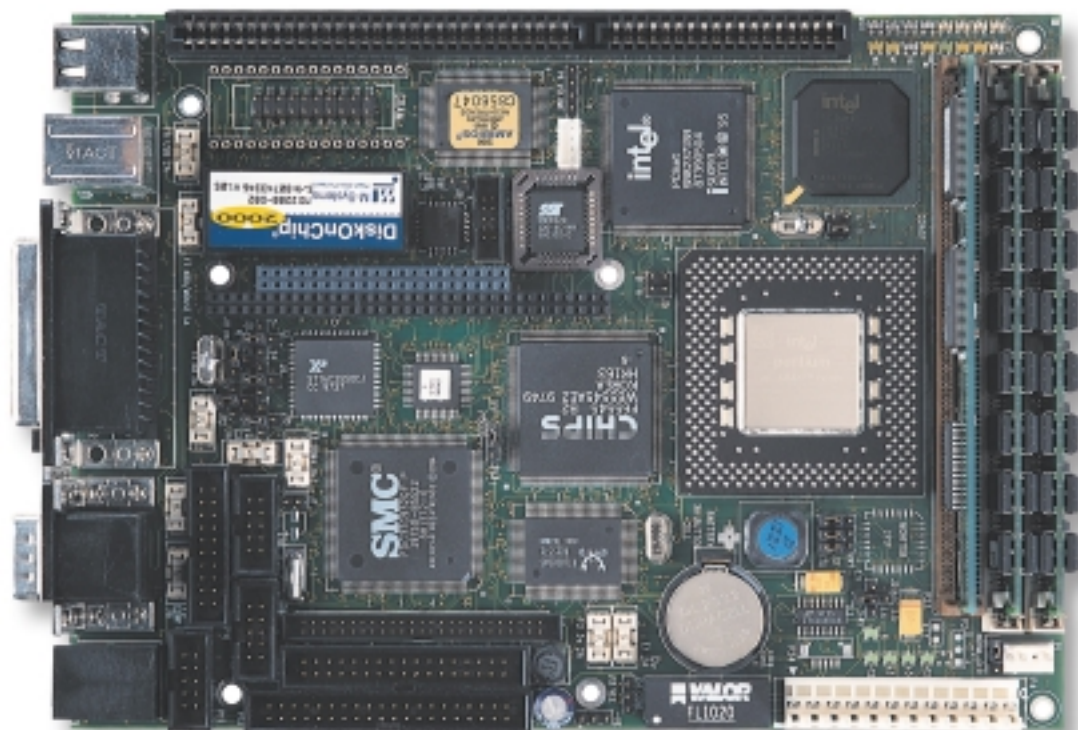
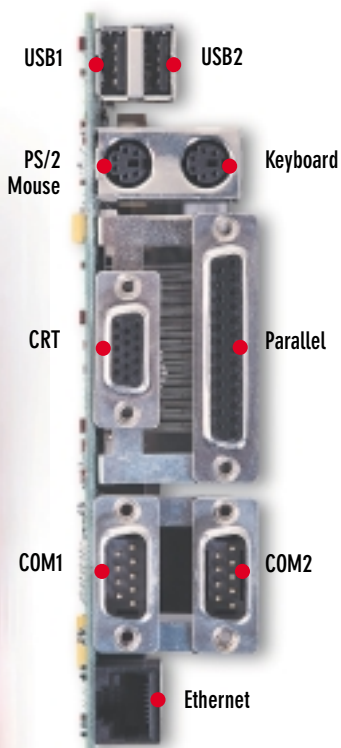
The HAWK single board PC is provided with a C&T 65545 graphics controller which has 1MB of Video memory and supports both CRT and a wide variety of LCD displays. Panel resolutions of 800 x 600, 1024 x 768 and 1280 x 1024 are supported.

An NE2000 compatible 10Base-T Ethernet controller is present on-board with an RJ45 connector for ease of interfacing. The ESS186x controller provides stereo Soundblaster™ compatibility with both line and speaker outputs.

For expansion, HAWK has a single ISA slot which is designed to take an ISA card or a 2 slot ISA riser card. A PC/104 interface is also provided.

HAWK supports dual EIDE devices (HDD and CD-ROM drives), dual floppy disk drives, dual USB ports, 4 powered Serial ports (one port selectable as RS232/485) and one SPP/EPP/ECP bi-directional Parallel port.

A unique feature of HAWK is the stacked D-type and PS/2 connectors, designed to simplify integration into chassis and enclosures, thereby reducing costs.



Actual size 203 mm x 146 mm



3 YEAR WARRANTY

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Embedded Pentium® based SBC with CRT/LCD, Audio and Ethernet

TECHNICAL SPECIFICATION

PROCESSORS SUPPORTED & SPEED

Pentium up to 233MHz MMX
Intel and AMD
SPGA socket

MAIN CHIP SET

Intel Triton II 430HX

DRAM

Up to 256MB via 2, 72 pin SIMMS
EDO and Fast Page supported

CACHE (L2)

256/512KB options
PBSRAM or Asynchronous
COAST compliant

FLASH SOCKET

M-Systems DiskOnChip
0-144MB options

SRAM

Up to 512KB

BIOS

AMI BIOS
C&T Video BIOS
Custom set-up utilities held in 256KB EPROM

VIDEO

C&T 65545
PCI Local Bus SVGA for LCD/CRT
1024 x 768 CRT Resolutions
800 x 600 LCD Resolutions
1MB Video memory
Back light switching on-board (5V & 12V)
High density D-type connector for CRT
High density IDC connector for LCD
On-board Vee Bias generation

ETHERNET

PCI based 10Base-T controller
NE2000 compatible

AUDIO

Soundblaster™ compatible ESS 16 bit stereo codec
Supporting Audio CD, mic, line in and line out

HARD DISK

Fixed Disk Controller for dual EIDE HDD/CD ROMS

FLOPPY DISK

Floppy Disk Controller for dual FDD to 2.88MB

BUS INTERFACE

ISA slot for PC/AT card/PCB riser
PCB riser supports 2 PC cards
PC/104 16 bit interface

WATCHDOG

Software enabled/disabled
Variable time intervals (0.5 to 255 sec)

SERIAL PORTS

4 Powered Serial ports
Ports 1, 3, 4 are RS232
Port 2 is RS232/485
COM 1&2 9 way D-type connectors
COM 3&4 10 way IDC connectors

PARALLEL PORT

1 x Enhanced Bi-Directional SPP/EPP/ECP

USB

Dual USB ports

KEYBOARD PORT

AT and PS/2 compatible
6 pin PS/2 connector

MOUSE PORT

PS/2 compatible
6 pin PS/2 connector

RESET PORT

Via I/O port or off-board reset switch

CONNECTORS

Double stacked D-type and PS/2 connectors for Serial, Keyboard, Mouse, Video and Parallel Port
Audio, Floppy, 3rd & 4th Serial ports and IDEs use IDC headers

PERIPHERALS HEADER

Reset, Speaker, LEDs, Keyboard etc.

POST LEDS

Diagnostic LEDs for POST and system status

BATTERY

On-board 3 Volt Lithium battery
Supports Real Time Clock and CMOS RAM

BOARD DIMENSIONS

203mm x 146mm (8" x 5.57")

MOUNTING

Via 7 x 3mm holes

ENVIRONMENTAL

0°C to 60°C Operational temp
-25°C to 85°C Storage temp
Non-condensing Relative Humidity 10% to 90%

POWER MANAGEMENT

Standby and suspend modes

SUPPLY VOLTAGE

+5 Volts operation for true embedded applications
On-board switching regulators for low voltage devices
VRT CPUs supported
+12, -12, -5 Volt input connectors for ISA and PC/104 card supply
Standard PC power connector

SUPPLY CURRENT

4.5 Amps for a Pentium 233MHz (typical)

EMC

Compliant with EN55022 and EN50082

OPERATING SYSTEMS

MS-DOS, Windows 95/98/NT

WARRANTY

3 years

ACCESSORIES

HAWK hard copy User Manual

HAWK cable kit: includes cables for Audio, Utilities, HDD, FDD and Serials (COM 3&4)

HAWK LCD Solution: includes cable assembly and BIOS upgrade (Please call for details of panels supported and part numbers)

2 ISA slot riser card

ORDER GUIDE

Please call or refer to our price list for detailed ordering information.



YEAR 2000 Compliance