

Blue Chip Technology



Single Board Computer

WILDCAT

WILDCAT

- Pentium® III, Coppermine and Celeron™ processors
- 66/100MHz FSB
- Socket 370
- Intel 440BX AGPset
- Up to 512MB SDRAM
- 0-288MB Flash options (DiskOnChip)
- Chips & Technologies 69030 PCI SVGA LCD and CRT controller
- 4MB of Video memory
- CRT and LCD resolutions:
1280x1024x256, 1024x768x64K, 800x600x16M,
640x480x16M
- 36bit LCD support
- Zoom video input
- Adaptec 7890 Ultra 2 wide SCSI supporting LVDS
- 100/10Base-T ethernet controller
- PICMG compliant
- 3/4 length card: 250mmx123mm

Pentium® III based Single Board Computer with CRT/LCD, Ultra 2 Wide SCSI and Ethernet

WILDCAT is based on an innovative card form factor, enabling a highly integrated Pentium® III PICMG compliant SBC to be used in embedded applications where normal full size PICMG cards are just too big. Despite being only a 3/4 length card, WILDCAT includes on-board CRT/LCD, Ultra 2 Wide SCSI, Ethernet and a host of other functions.

Designed for operation in passive backplane systems, WILDCAT is based on the high performance Intel 440BX Chip Set with a 66/100MHz front side bus, and supports Pentium® III processors in a PPGA370 socket. Up to 512MB of SDRAM and 288MB of Flash is supported.

The C&T 69030 video controller intergrates 4MB of video memory and supports both CRT and LCD displays, simultaneously if required. WILDCAT supports LCD and CRT resolutions up to 1280x1024x256 and a wide range of LCD panels up to 36 bits.

The optional Ultra 2 wide SCSI, which is based on the Adaptec 7890, supports LVDS and provides data transfer rates up to 80MB/Sec.

Built-in power management features help to manage the power consumption and improve reliability. WILDCAT supports 100/10Base-T Ethernet, up to four EIDE devices and dual USB ports. Standard ISA bus peripherals such as PS/2 Mouse/Keyboard controller, dual floppy, RS232 Serial ports (IrDA option on COM2) and one SPP/ECP/EPP bi-directional parallel port are also integrated onboard.



Also available without SCSI and Video



BS EN ISO 9001
Certificate No 33069



3
YEAR
WARRANTY

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WILDCAT

Single Board Computer

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Pentium® III based Single Board Computer with CRT/LCD, Ultra 2 Wide SCSI and Ethernet

TECHNICAL SPECIFICATION

PROCESSORS SUPPORTED & SPEED

Pentium® III, Coppermine and Celeron™ processors
66 and 100MHz host bus frequencies
Socket 370

MAIN CHIP SET

Intel 440BX AGPset

DRAM

Up to 512MB SDRAM via 2, 168 pin DIMMS
ECC Parity supported
SDRAM supported on 66/100MHz host bus
Memory interface support for 3V3 SDRAM

CACHE (L2)

Cache as per CPU

FLASH

M-Systems DiskOnChip
0-288MB options

BIOS

Phoenix system BIOS
Custom extensions
Chips and Technologies Video BIOS
Located in a 256K ROM

VIDEO

SVGA Video output
Chips & Tech 69030
4MB of Video memory
CRT and LCD resolutions:
1280x1024x256, 1024x768x64K,
800x600x16M, 640x480x16M
36bit LCD support via 2mm pitch header
Zoom video input

ULTRA 2 WIDE SCSI (LVDS)

Adaptec 7890 Ultra 2 Wide SCSI supporting LVDS
Up to 80MB/Sec data transfer rate
8/16 bit Ultra SCSI interface
SCSI BIOS held in System BIOS ROM
68 Way SCSI II connector
On-board active termination

ETHERNET

100/10Base-T controller
UTP interface with auto-negotiation
Remote Boot ROM option (in system BIOS ROM)

HARD DISK

Fixed Disk Controller for dual EIDE HDD interfaces (4 devices)
Supports PIO mode 4 and Bus Master transfers up to 22MB/Sec
Supports Ultra DMA33
Synchronous DMA transfers up to 33MB/Sec

FLOPPY DISK

Floppy Disk Controller for up to 2 FDD to 2.88MB

ISA BUS

ISA edge connector interface
Fully buffered drive for up to 20 ISA slots

PCI BUS

PCI Local Bus Interface Ver 2.1
Support for up to 4 PCI slots
PICMG (Ver 2.0) compliant

REAL TIME CLOCK

Battery backed via on-board lithium cell

SERIAL PORTS

2xRS232 (IrDA option on COM2)

PARALLEL PORTS

1 x enhanced bi-directional SPP/ECP/EPP

USB

2 x USB via header
Serial transfer rates up to 12 and 1.5Mbit/Sec

WATCHDOG

Software disabled/enabled
Refresh period 0.5 sec

ALARM FUNCTIONS

LM79 system monitor
Detects voltage excursions on supply rails
Detects fan failure for up to 2 fans
System temperature monitoring

KEYBOARD PORT

Standard AT/PS/2 PC compatible
6 pin PS/2 connector on rear panel

MOUSE PORT

PS/2 Mouse via panel using splitter or utilities header

PERIPHERALS HEADER

Reset, Speaker, IDE, Power LEDs etc

BATTERY

On-board 3.7 Volt field replaceable Lithium battery
Supports Real Time Clock and CMOS RAM
External battery INPUT provided
Diode protected automatic switching

BOARD DIMENSIONS

3/4 length card: 250mmx123mm

MOUNTING

Via passive back planes

ENVIRONMENTAL

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

POWER MANAGEMENT

BIOS provides APM

SUPPLY VOLTAGE

+5 and +12 Volts for panels and fan connector
Pentium core generated via DC/DC converter
All required voltages generated on-board

EMC

Compliant with EN55022 and EN50082

OPERATING SYSTEMS

MS-DOS
Windows 95/98/NT

WARRANTY

3 years

ACCESSORIES

WILDCAT hard copy User Manual

WILDCAT cable kit: includes cables for Utilities, HDD, FDD, Serial, Parallel, USB

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

OPTIONS

WILDCAT without SCSI and without VIDEO (Ethernet on-board)
WILDCAT without SCSI (Video and Ethernet on-board)
Passive Backplanes: please call for details

ORDER GUIDE

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



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