

# 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



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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.



Blue Chip Technology

Chowley Oak, Tattenhall, Chester Cheshire, CH3 9EX, UK

Tel: +44 (0) 1829 772000  
Facsimile: +44 (0) 1829 772001  
E-mail: [sales@bluechiptechnology.co.uk](mailto:sales@bluechiptechnology.co.uk)  
Website: <http://www.bluechiptechnology.co.uk>

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