Wolverine — The Ideal Computer for Home or Office

Barron Micro has developed the Wolverine for those who demand 486 power and high-quality U.S. made components, all at an aggressive price. Designed in partnership with IBM, Wolverine systems are based on cutting-edge U.S. technologies, with a long list of standard features including VESA local bus, local bus video accelerated for maximum Windows performance, Enhanced IDE local bus disk interface, fast enhanced IDE hard drives and more. The Wolverine, being Energy Star compliant, will lower your operating costs while also being friendly to the environment. The Wolverine System is receiving wide acclaim from Windows, Graphics and Database users everywhere!
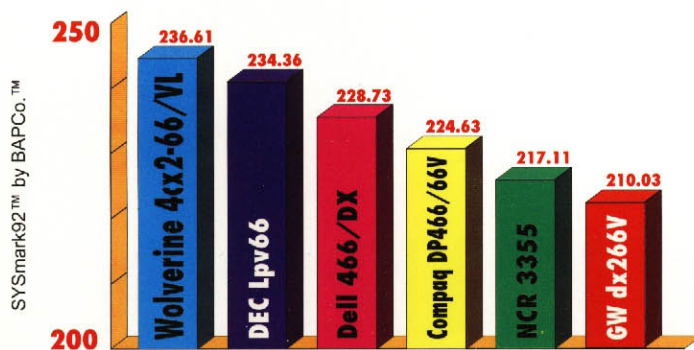
All of these technologies are integrated onto a top-quality mainboard manufactured by IBM. The systems are fine-tuned and balanced with ultimate precision, and backed by a comprehensive warranty. Our genuine U.S. quality and performance has been proven by independent BAPCo testing. Only Barron Micro and the Wolverine line of computers provides this combination of high quality and exceptionally low prices. In a word, *value.*

Increased Data Transfer Rates
The Wolverine allows data transfer as swiftly as the CPU can accommodate it. This is made possible by the latest version of VESA Local Bus technology. Additional speed is also generated by Block Mode Programmed I/O, a method of moving data by grouping information in larger segments with fewer interrupts as opposed to the traditional I/O mode. These technologies improve overall system performance by as much as 50%!

The systems have a dual IDE interface, can accommodate fast peripherals on the local bus to maximize performance while still maintaining backward compatibility with normal IDE devices running on a separate channel.

250
236.61
234.36
228.73
224.63
217.11
210.03
200
SYSmark92™ by BAPCo.™
Wolverine 4cx2-66/VL
DEC Lpv66
Dell 466/DX
Compaq DP466/66V
NCR 3355
GW dx266V

35 systems with Intel 486DX 2 were tested on 30.09.93 by BAPCo. Wolverine 4DX2-66 was the winner.

Windows and Graphics
Microsoft Windows is the standard interface for the home and corporate PC user. The Wolverine's local bus graphics provides increased data transfer rates, and a host of video enhancement technologies combine to speed Windows applications through intense graphical tasks. The result is graphics performance usually found only on higher priced systems.

Cirrus Logic 5428 video adapter with a Windows-accelerator transfers graphics data along the bus at the CPU speed. Video memory expandable from the standard 1 Mb to 2 Mb. Supports resolutions up to 1280 x 1024; up to 16 million colors.

Upgradability
The Wolverine was designed with an eye toward the future, insuring that your investment in today's state-of-the-art systems will provide room to grow with tomorrow's technology advancements. The Wolverine's ZIF socket will accommodate 486SX, 486DX, 486DX2 and are upgradable to the Intel Pentium OverDrive.

Networkability
All systems have been designed as ideal workstations for Ethernet, Token Ring and FDDI networks. They are Novell certified.

All Wolverine systems support the most common network operating systems: NetWare 3.xx, 4.x, Banyan Vines 4.11, MS LAN 2.0, SCO UNIX System 386, SCO Open Desktop.

Innovative Design
The Wolverine's compact desktop slimline design saves you the valuable desk space you're always searching for. And still plenty of room to grow with two 1/2 length ISA slots, and three full length ISA slots.

Price/Performance
In BAPCO SYSmark92 tests conducted at IBM's Austin, Texas facility, the Wolverine 486 system obtained the single highest rating among 35 systems tested, including those from Compaq, Digital, Dell, AT&T and Gateway 2000. Barron Micro's mission is to give you more for your money. With record breaking performance and reliability, and Energy Star compliance, Barron Micro's Wolverine line of personal computers are real money savers. Increased productivity, lower system cost, lower electric bills, less service and less downtime combine to make the Wolverine a great value.

Genuine American Quality Components

Mouse

The mouse features a popular ergonomic shape that is comfortable and easy to work with. This opto-mechanical mouse, with a 100km life engine, 500,000 switch life and 400 dpi resolution is an extremely valuable tool for graphic based application users.

Keyboard

The Wolverine PC features a high quality 102 key keyboard manufactured by Keytronic of Washington State, the largest U.S. manufacturer of keyboards. The design is comfortable and features 30 million lifecycles per switch and reliable typing accuracy without slippage.

Mainboard

Designed, engineered and manufactured by IBM, the mainboard is highly integrated to eliminate incompatibilities and increase system performance.

Integrated on the mainboard are ZIF CPU upgrade socket, 8Kb L1 cache, 128 or 256 Kb L2 cache (optional), VESA local bus with an Enhanced IDE controller (up to 10Mb/s), 1280 x 1024 Windows Accelerator, 1Mb VRAM (expandable to 2Mb), 4 Mb RAM (expandable to 64 Mb), I/O ports.
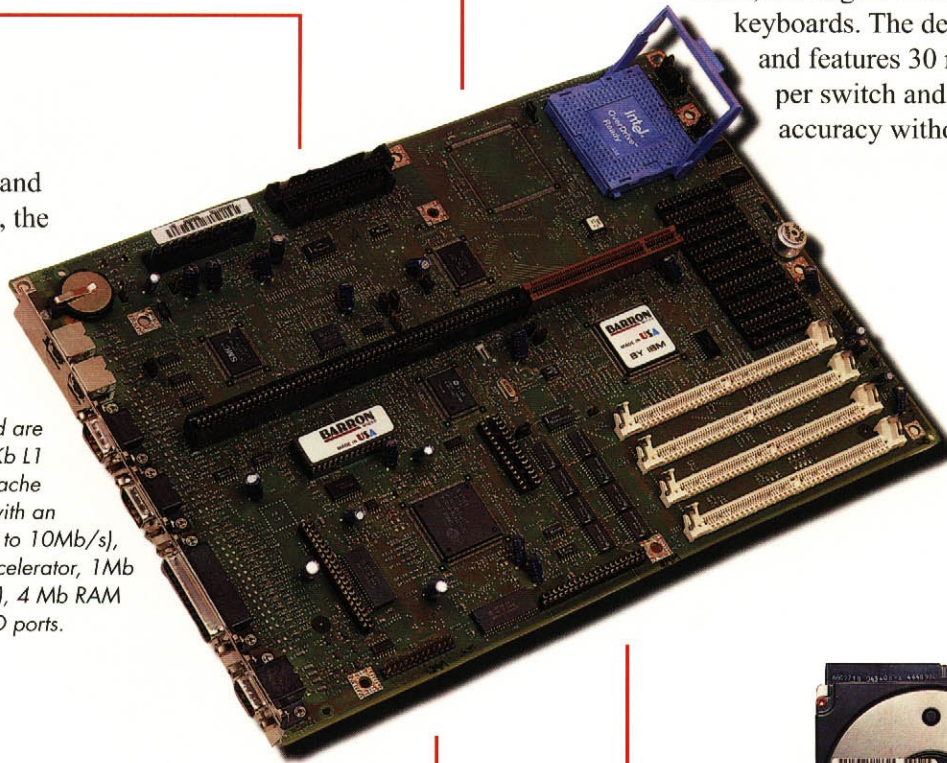
Power Supply

The Wolverine is the only U.S. Made System featuring a U.S. made power supply unit, 160% overload protected with an impressive 50,000 hour MTBF rating.

Internal line filtering that exceeds FCC/VDE "B" requirements. UL, CSA and TUV certified. Full OCP, OVP and SC system peripheral protection.

Fast, Enhanced IDE Hard Drives

Extremely vital to Windows and interactive applications is a quality hard disk. The Wolverine System features fast, Enhanced IDE Hard Disks.

Industry leading PRML and magnetorestrictive head technologies yield extremely high areal density; 300,000 power-on hours MTBF. 8.6 - 12ms seek time, 8.3Mb/s interface data transfer rate. Error correcting and checking on the fly.

Wolverine System Technical Specifications

Base Processing Unit

CPU:
Intel 486SX at 33 MHz (4sx33/VL)
Intel 486DX at 33 MHz (4dx33/VL)
Intel 486DX2 at 66 MHz (4dx2 66/VL)

Upgradability: OverDrive Upgradable

RAM:
4 MB standard
Upgradable to 64 MB on system board
Supports 4 MB (1 MB x 36-bit)
8 MB (2 MB x 36-bit) & 16 MB (4 MB x 36-bit)

Primary Cache:
8 KB write-through internal cache
4-way set associative

Secondary Cache: 128 KB write-back secondary L-2 cache or
(Optional) 256 KB write-back secondary L-2 cache

ROM:
AMI ROM WinBIOS with multi-level
security features

Graphics:
Integrated VESA local bus video with BitBLT
graphics accelerator, 1MB video DRAM
standard (expandable to 2MB)

Resolutions with 1MB:
• 640 x 480 (16.8M colors, TrueColor)
• 800 x 600 (64K colors, TrueColor)
• 1024 x 768 (256 colors)
• 1280 x 1024 (16 colors)

Resolutions with 2MB:
• 640 x 480 (16.8M colors, TrueColor)
• 800 x 600 (16.8M colors, TrueColor)
• 1024 x 768 (64K colors, HighColor)
• 1280 x 1024 (256 colors)

Expansion /Connectivity

Device Bays:
Desktop Slimline:
• One 3.5" (1" height) external bay
  (standard 1.44MB diskette drive)
• One 5.25" (1.6" height) external bay
• One 3.5" (1" height) internal bay
  (standard half-height 3.5" hard drive)

Expansion Slots:
Five 16-bit I/O slots
Slot lengths
1/2 length ISA   2 slots
Full length ISA 3 slots

Bus Architecture: VESA Local Bus/ISA

Standard Interfaces:
Local-bus IDE channel supports two local
bus IDE devices. Diskette drive interface
supports up to 4 diskette drives and
tape drive

Front Panel:
Power, turbo and disk LED's
Reset and Turbo Buttons
Power Button
Key Lock

Rear Panel Ports:
Dual RS-232C serial 9-pin ports
featuring16450 UART
One enhanced bi-directional parallel port
supporting EPP and ECP protocols
One 15-pin VGA display port
One PS/2 compatible keyboard port
One PS/2 compatible mouse port

Chassis & Standard Components

Physical Characteristics:
16.9" W x 4.4" H x 16.2" D - 25 lbs

Operating Environment:
Temperature: 50° to 95° F (10° to 35° C)
Humidity: 20% to 80% (non-condensing)

Power Supply: 200 watt, switch-selectable

Power Consumption:
Less than 10 watt input / 20 watt output
(In Power Management Mode)
EPA Energy Star Compliant

Keyboard:
102-key membrane keyboard
12 function keys
Separate numeric and cursor pads

Mouse: Barron Micro PS/2 compatible Mouse

System Security

Features:
Power-on password
BIOS password
Disable diskette drive (s)
Disable keyboard
Disable parallel port
Disable serial ports