

Attention Computer Users of: AT&T, AST, COMPAQ, IBM, NEC,  
WANG, ZENITH, AND ETC.

# Is Your Computer A **WIMP?**

Our Form-Fit Direct Replacement Motherboard  
Will Transform Your Old System Into A True  
386 or 486 Performance Machine-

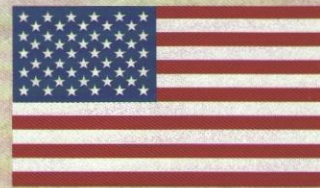
A Minimum  
Investment For A  
Powerful Solution!



**NO CACHE  
NEEDED**

Upgradable  
Path to 486

Whether It Is A Motherboard Upgrade  
or A New System, Alpha Systems Lab,  
Is The Right Choice For You!



PROUDLY MADE IN THE U.S.A.



## **ALPHA SYSTEMS LAB, INC.**

8 HAMMOND DR. # 111 IRVINE, CA 92718 • TEL: (714) 830-5838 • FAX: (714) 587-9473

# UNIVERSAL UPGRADE SPECIALIST

**386DX-25/33MHZ**

**486DX-25/33MHZ**

**486SX-25MHZ**

## GENERAL SPECIFICATIONS

Our "Transformer" motherboards are especially designed with passive backplane approach to upgrade: IBM PC (5 slots), XT & AT (8 slots), AST 286, AT& T 6300 series, COMPAQ DESKPRO (XT & AT), NEC Power Mate, WANG 286, XEROX (6060 & 6065), Zenith 286 & XT, into a 386 or a 486 machine. Special custom configurations are available upon request. They are compatible with all existing hardware and software. The 386DX motherboard is easily upgradable to 486 via our daughter card.

### PROCESSOR:

386DX-25/33MHZ  
486DX-25/33MHZ  
486SX-25MHZ

### CO-PROCESSOR:

Intel 80387 or WEITEK with math processor socket.

### MEMORY:

Expandable to 32MB memory on board, using simm module 256 x 9, 1M x 9 and 4M x 9. Hardware supports full LIM EMS 4.0 spec over entire 32MB memory map. High speed RAM allows MAXIMUM SYSTEM THROUGHPUT WITHOUT CACHE memory.

### MEMORY CONFIGURATION:

1MB, 2MB, 4MB, 5MB, 8MB, 16MB, 17MB, 20MB, 32MB.

### ROM BIOS:

Latest Bios with internal Rom setup (password, screen save, system information, auto-park hard disk, low-level format, etc.

### COMPATIBILITY:

OS-2, UNIX, XENIX, NOVELL, 3-COM, TOKEN RING, etc...

### HARDWARE:

- Latest Intel/VLSI chip set.

### BUS INTERFACE:

ISA Bus.

### FLOPPY DISK INTERFACE:

Supports up to two (2) 5.25 or 3.5 inch floppy disk drives, with software configure or disable.

### SYSTEM CONTROL:

- Bus selectable speed between 4/8/16MHZ.
- HW & SW selectable speed between standard and turbo clock.
- Shadow RAM for system & video BIOS for faster access.

### IDE (16- Bit) HARD DISK INTERFACE:

Supports up to two (2) hard disk drives, with software configure or disable.

### PARALLEL PORTS:

One (1) parallel port as LPT1 or LPT2, D-type 25 pin female, with software configure or disable.

### KEYBOARD:

Supports PC/XT/AT keyboards.

### SERIAL PORTS:

The two (2) RS232 serial ports COM1-4 with software configure or disable.

### WARRANTY:

Full two (2) years.

### FUTURE UPGRADE:

Upgrade path for 486 machine.

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## PHYSICAL SPECIFICATIONS:

POWER CONSUMPTION: 2A, 5V. SIZE: CPU: 4.20 x 13.5 (low profile expansion board) backplane: depends on model.

BOARD CONSTRUCTION: Six (6) layers, surface mount technnology. OPERATING TEMP: 0 to 70 C.

\* OS-2, Token Ring, UNIX, Novell and 3-COM Netware are Trademarks of their respective companies-IBM Corp, AT&T, Novell, Compaq, 3-COM. All rights reserved, Specifications are subject to change without notice.

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Design & Manufacture

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## ATTENTION: COMDEX WARRIOR?

### FEET SORE? SEEN ANY REALLY NEW PRODUCTS AT COMDEX? IS YOUR COMPUTER A WIMP?

Alpha Systems Lab, Inc. is a manufacturer of direct form fit motherboard replacements utilizing "state of the art" passive backplane architecture. Enclosed you will find information on the highest quality, best performance "American Made" motherboards in the industry.

If you have one of the following computers and you are serious about "Transforming" your old computer into a High Performance 386DX or 486SX\DX give us a call:

AT&T 6300 SERIES  
XEROX 6060 & 6065  
IBM PORTABLE  
IBM PC (5 slot)  
IBM PC XT\AT (8 slot)  
ALL STANDARD IBM COMPATIBLE  
COMPAQ LUGGABLE  
COMPAQ DESKPRO (XT & AT)  
WANG PC (286)  
AST PREMIUM 286  
NEC POWERMATE 386-LX  
OLIVETTI M24  
ZENITH MODEL 248  
\* ZENITH XT  
\*\* IBM 3270

(\* Available 12\91) (\*\* Available 1\92)

**Ask for the Alpha-Sales staff at: 714-830-5838**

Exclusive 30 day "Money-Back" guarantee.

All direct replacement products covered by our 2 year parts and labor warranty.

If high quality parts and components, stringent comprehensive testing, FREE direct line technical support, first rate warranties, superior service and working directly with the manufacture, are attractive, call us today.

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# ALPHA SYSTEMS LAB, INC.

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## List of Products and Prices

All "Transformer" motherboards are sold standard with 0k of memory. They support up to 32MB of 60ns Simm modules. Add \$60.00 per Mega Byte desired (with board purchase). If ordering memory without a board purchase \$80.00 per Mega Byte.

SEE REVERSE SIDE FOR COMPLETE ORDER INSTRUCTIONS.

<u>Part Numbers</u>	<u>Description</u>	<u>1</u>	<u>2-10</u>	<del>11+</del>
???25DX?	80386DX-25Mhz w/0k AT Floppy & 16bit Hard Disk controller (IDE), I/O 2 Ser.& 1 Par. Ports. LIM EMS 4.0 supported.	950.00	710.00	695.00
???25DX?	80386DX-25Mhz w/0k AT Floppy & 16bit Hard Disk controller (IDE), I/O 2 Ser. & 1 Par. Ports. LIM EMS 4.0 supported.	950.00	710.00	695.00
???33DX?	80386DX-33Mhz w/0k AT Floppy & 16bit Hard Disk controller (IDE) I/O 2 Ser. & 1 Par. Ports. LIM EMS 4.0 supported.	1,050.00	795.00	750.00
???254SX?	80486SX-25Mhz w/0k AT Floppy & 16bit Hard Disk controller (IDE), I/O 2 Ser. & 1 Par. Ports. LIM EMS 4.0 supported.	1,295.00	1,045.00	995.00
???254DX?	80486DX-25Mhz w/0k AT Floppy & 16bit Hard Disk controller (IDE), I/O 2 Ser. & 1 Par. Ports. LIM EMS 4.0 Supported.	1,495.00	1,195.00	1,145.00
???334DX?	80486DX-33Mhz w/0k AT Floppy & 16bit Hard Disk controller (IDE), I/O 2 Ser. & 1 Par. Ports. LIM EMS 4.0 supported.	1,595.00	1,245.00	1,195.00
486SX25MOD	80486-25Mhz Upgrade Module for 386DX Prices shown with 386 CPU Trade-in.	895.00	625.00	595.00
486DX25MOD	80486-25Mhz Upgrade Module for 386DX Prices shown with 386 CPU Trade-in.	1,095.00	825.00	795.00
486DX33MOD	80486-33Mhz Upgrade Module for 386DX Prices shown with 386 CPU Trade-in.	1,050.00	895.00	850.00
VL51218	80286-12Mhz Motherboard, 5 Slot complete with 1 mega Byte of memory.	295.00	265.00	250.00
VL81218	80286-12Mhz Motherboard, 8 Slot complete with 1 mega Byte of memory.	295.00	265.00	250.00

AMM  
QRY  
✓

\* Prices subject to change without notice.

PLMB10/91

## If you are ordering a 386DX or 486SX/DX

All "Transformer" motherboards part number have question marks within them. These question marks need to be filled in with the appropriate numbers or letters. The information below will help you determine what information you need to insure proper shipment of your order.

**For Example:** You have a IBM PC 8088 and would like to upgrade it to a 386DX-25Mhz with 4 mega bytes of memory.  
**Your Part Number would be:** IP525DX4= IBM PC, 5 slot, 25Mhz, DX processor, with 4 mega bytes of memory.

## Order Information

(First two ?? Answered Here)  
Abbreviations of Brand Names

CP = Compaq Luggable XT (8086)(Portable)  
CX = Compaq Deskpro XT (8086)  
CA = Compaq Deskpro AT (286) (model 2551)  
IM = IBM Portable  
IP = IBM PC (8088)(model 5150)  
IX = IBM XT (8086)(model 5160)  
IA = IBM AT (286)(model 5170)  
WA = Wang PC (model 280-3)  
NE = NEC Powermate (model 386-LX)  
AS = AST Premium (286)  
ZE = Zenith (model 248)  
OL = Olivetti (model M24)  
AT = AT&T 6300 Series

(third ? Answered Here)  
Number of Bus Slots per Systems

Compaq Luggable = 5 Slots  
Compaq Deskpro XT = 8 Slots  
Compaq Deskpro AT = 8 Slots  
IBM Portable = 8 Slots  
IBM PC = 5 Slots  
IBM XT = 8 Slots  
IBM AT = 8 Slots  
Wang PC = 8 Slots  
NEC Powermate = 8 Slots  
AST Premium = 7 Slots  
Zenith 248 = 10 Slots  
Olivetti M24 = 7 Slots  
AT&T 6300 Series = 7 Slots

(Last ? Answered Here)  
Amount of Memory Choices

1MB, 2MB, 4MB, 5MB, 8MB  
16MB, 17MB, 20MB, and 32MB

## If you are ordering a 286-12

Our "Transformer" 286-12Mhz is specific to the IBM Portable, IBM PC 5 slot or IBM XT or AT 8 slot. As well as most IBM clones machines. This upgrade model comes with 1 mega byte of memory installed on the motherboard. The memory used is 80ns DRAM. The information below will help you determine what information you need to insure proper shipment of your order.

**Example #1:** You have a IBM PC 8088 and would like to upgrade to a 286-12Mhz.  
**Your Part number would be:** VL51218= VLSI chipset, 5 slot, 12Mhz, 1 mega byte, 80ns RAM.

**Example #2:** You have a IBM XT 8086 and would like to upgrade to a 286-12Mhz.  
**Your Part number would be:** VI81218= VLSI chipset, 8 slot, 12Mhz, 1 mega byte, 80ns RAM.

If the computer you wish to upgrade has 5 Slots, you need the 5 Slot "Transformer" upgrade.  
If the computer you wish to upgrade has 8 Slots, you need the 8 Slot "Transformer" upgrade.