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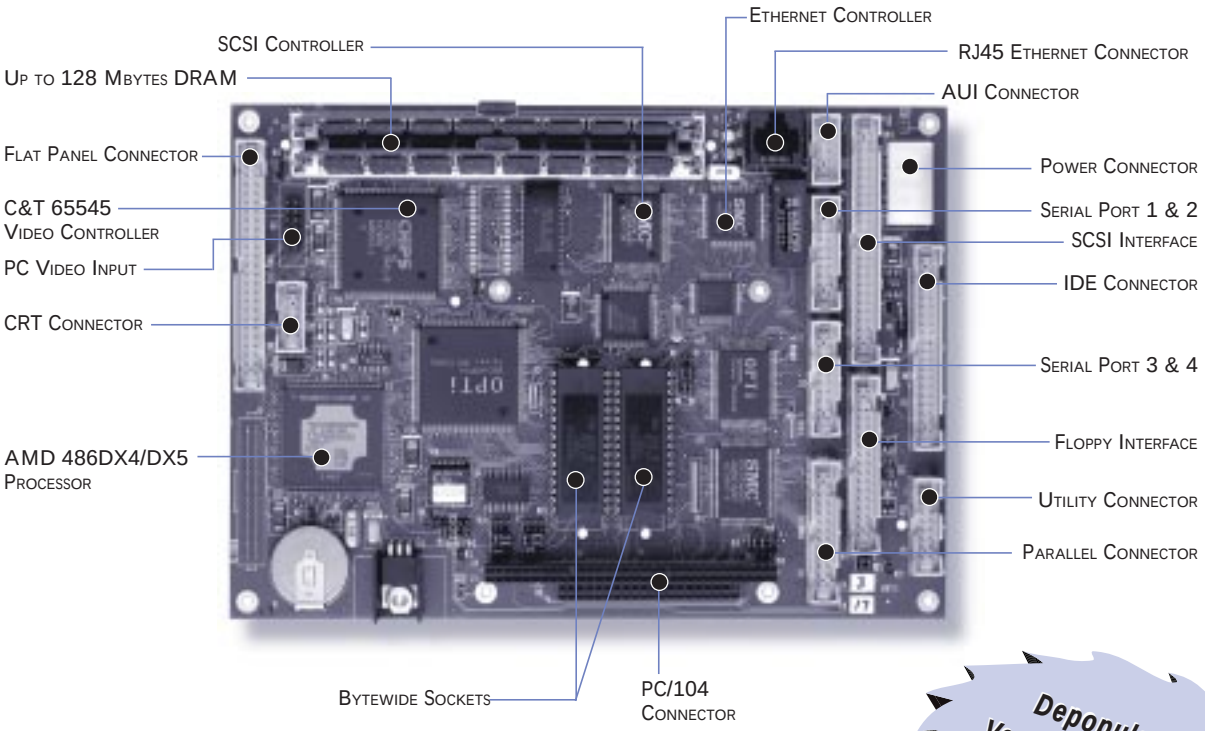
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LB3-486

Little Board™/486*i* • *Exceptional performance, high integration PC/AT compatible single board system*



Depopulated Versions Available!

The Little Board/486*i* is an exceptionally high integration, high performance, 486DX-based PC/AT compatible *system*, in the footprint of a 5-1/4 inch disk drive. This rugged, high quality single-board system contains all the component subsystems of a PC/AT motherboard plus the equivalent of six PC/AT expansion cards.

Key functions included on the Little Board/486*i* are a 3.3V CPU, DRAM, embedded-PC BIOS, keyboard and speaker interfaces, four buffered serial ports, IEEE-1284 enhanced parallel port, floppy and fast IDE drive controllers, an LCD/CRT local bus display interface, a SCSI-II bus, and an Ethernet LAN interface. In addition, the Little Board/486*i* includes a comprehensive set of embedded system extensions and enhancements, plus it is designed to meet the size, power consumption, temperature range, quality, and reliability demands of embedded applications.

Among the many embedded-PC enhancements that ensure fail-safe embedded system operation are a watchdog timer, a powerfail NMI generator, and an onboard bootable Solid State Disk (SSD) capability. System operation requires a single +5V power source and offers "green PC" power-saving modes under support of special Advanced Power Management (APM) BIOS functions.

Ampro Computers, Inc. • 4757 Hellyer Ave., San Jose, CA 95138 • Tel. (408)360-0200 • Fax (408)360-0222 • sales@ampro.com

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LB3-486

SPECIFICATIONS

For a complete list of panels supported, please visit our website www.ampro.com/support

PC FUNCTIONS

CPU	• AMD 486DX4/DX5, 66 or 100/133 MHz
MEMORY	• Supports up to 64 Mbytes, Fast Page or EDO DRAM
	• Supports two 72-pin SIMMs (1 bank) with or without parity
	• Shadow RAM support provides fast system/video BIOS execution
DMA INTERNAL	• 15 interrupt channels (8259 equivalent)
	• 7 DMA channels (8237 equivalent)
COUNTER TIMER	• 3 programmable counter/timers (8254 equivalent)
KEYBOARD	• Standard PC/AT keyboard port
	• Speaker port with 0.1 watt output
REAL TIME CLOCK	• Battery backed real-time clock and CMOS setup
BIOS	• Award ROM-BIOS with Ampro enhancements (See Ampro Embedded-PC Enhancements section)

ADDITIONAL ONBOARD FUNCTIONS

SERIAL	• Four FIFO-buffered serial ports with full handshaking (16550 equivalent)
	• Each channel supports either RS232C (direct connection) or RS485 (via the Ampro RS485 Adapter)
PARALLEL	• EPP/ECP compatible, bidirectional
FLOPPY	• Supports 1 or 2 drives
FAST IDE	• Supports 1 or 2 drives
	• Supports "fast" IDE data transfer modes, up to PIO mode 4
SCSI-II	• Adaptec AIC-6360
	• Supports SCSI I/II, synchronous or asynchronous transfers
BYTEWIDE SOCKET	• Two 32-pin byte-wide memory sockets: usable with 32K-1M byte EPROMs, 32K-512K byte Flash EPROMs, 32K-512K byte SRAMs, or 32K-512K byte NOVRAMs
	• Onboard battery converts SRAM into NOVRAM
	• Usable with DiskOnChip2000™ read/write flash SSD device (only one socket usable with DiskOnChip)
CONFIG EEPROM	• 512 bits available for OEM use
WATCHDOG TIMER	• Utilizes real time clock alarm function
	• Timeout triggers NMI or hardware reset
POWERFAIL NMI	• Triggers when +5V power drops below +4.7V

VL BUS DISPLAY CONTROLLER

	• Supports CRT, LCD, and EL displays
CONTROLLER	• C&T 65545
ONBOARD DISPLAY RAM	• 512 K or 1 MByte (soldered)
FLAT PANEL SUPPORT	• Supports 24-bit "true color" (640 x 480)
	• "GUI accelerator" for enhanced graphic function performance
	• Software programmable flat panel interface signal timing
	• Sequenced LCD power to protect display
	• Supports DPMS-compatible displays
	• Optional plug-in LCD bias supply: supplies ±15 to ±35 VDC @ 30 mA; voltage level adjusted via onboard or external potentiometer

ETHERNET LAN INTERFACE

	• Complies with IEEE-802.3 (ANSI 8802-3)
CONTROLLER	• SMC 9000 series
MEDIA INTERFACE OPTIONS	• 10Base-T (twisted pair), via onboard RJ45 connector
	• AUI, via onboard header connector; DB15F transition cable available
	• 10Base2 (thin coax), via external MAU connected to AUI interface
DATA RATE	• 10M bits/sec
REMOTE BOOT ROM	• Can be installed in byte-wide SSD socket

MECHANICAL

SIZE	• 5.75 x 8.0 x 1.2 in. (146 x 203 x 30 mm)
POWER	• Power requirements (Please refer to the *Ampro Ordering Guide.*)
ENVIRONMENTAL	• 0° to 70° C standard temperature
	• –40° to +85° C extended operating temperature (available by special order) Note: additional airflow or heatsinking required to maintain 85° C maximum CPU case temperature.
	• 5% to 95% relative humidity, non-condensing
	• Storage temperature: –55° C to +85° C
	• Weight: 9.5 oz. (270 gm)

NOTE: Contact Ampro regarding custom configurations and special order options.

For ordering information and pricing please refer to Ampro Ordering Guide.

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