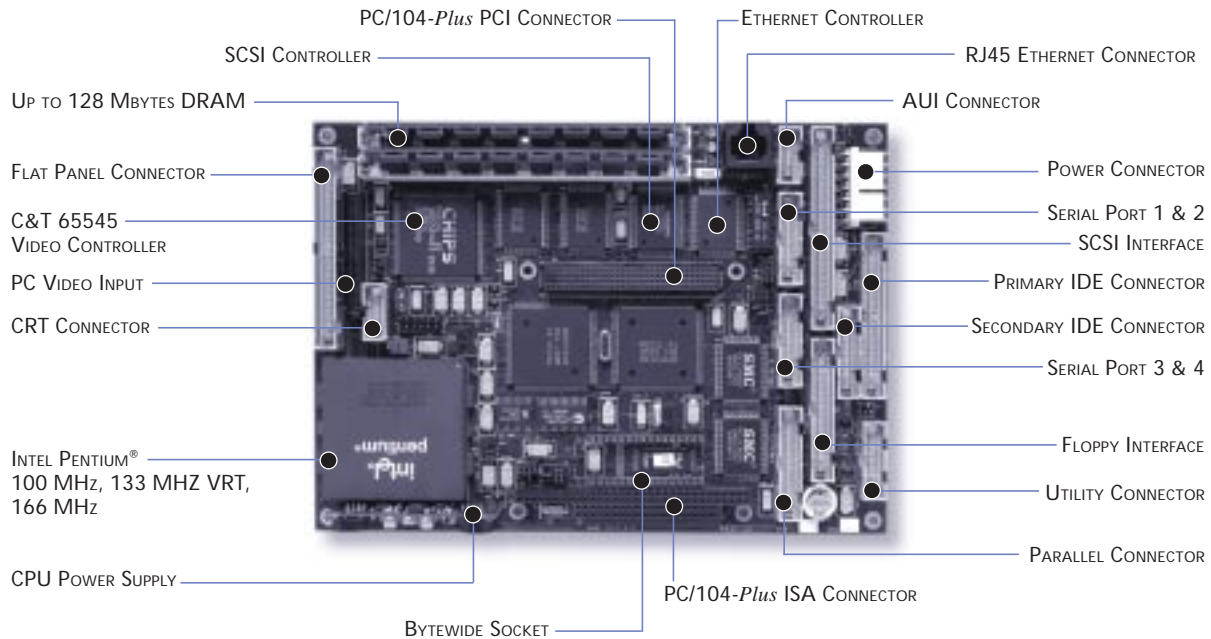


# LB3-P5i

Little Board™/P5i • *Exceptional performance, high integration EBX compliant single board system*



The Little Board/P5i sets the standard for Pentium-based embedded-PC designs. The extreme power of an Intel Pentium CPU is combined with the high bandwidth of a PCI expansion bus, in a rugged and reliable single-board solution for embedded applications that demand small size, low power consumption, and high functionality.

This high-end member of the popular Ampro "third generation" Little Board family contains—on a single compact assembly—all the functions of a fully configured PC-compatible system. Included in this highly integrated design are disk, display, network, and SCSI controllers, plus four serial ports and an enhanced parallel port.

## **HIGH PERFORMANCE AND RELIABILITY**

The Little Board/P5i meets the performance and reliability demands of a wide range of fixed, mobile, and portable embedded applications. Compact size, reduced power consumption, wide operating temperature, high quality, and rugged construction all make the Little Board/P5i the optimal choice for use in punishing embedded environments.

# LB3-P5i

## SPECIFICATIONS

### PC FUNCTIONS

#### CPU

- Intel Pentium®, 100 MHz, 133 MHz VRT, 166 MHz
- 256K level two cache

#### MEMORY

- Supports up to 128 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)
- 3 programmable counter/timers (8254 equivalent)

#### KEYBOARD

- Standard PC/AT keyboard port
- Speaker port with 0.1 watt output

#### REAL TIME CLOCK

#### BIOS

- Battery backed real-time clock and CMOS setup
- 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

#### FLOPPY

#### PCI ENHANCED IDE

- Supports 1 or 2 drives
- Supports up to four drives
- Supports "fast" IDE data transfer modes

#### PCI ULTRASCSI

- Adaptec AIC-7860
- Supports SCSI I/II, "UltraSCSI" (20MB/sec), synchronous or asynchronous transfers

#### BYTEWIDE SOCKET

- Usable with 32K-1M byte EPROMs, 32K-512K byte Flash EPROMs, 32K-512K byte SRAMs, or 32K-512K byte NOVRAMs
- Offboard battery converts SRAM into NOVRAM
- Usable with DiskOnChip2000™ read/write device

#### CONFIG EEPROM

- Supports battery-free boot capability
- 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

### PCI DISPLAY CONTROLLER

#### CONTROLLER

#### ONBOARD DISPLAY RAM

#### FLAT PANEL SUPPORT

- Supports CRT, LCD, and EL displays
- C&T 65545
- 1 MByte
- 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

#### CONTROLLER

#### MEDIA INTERFACE OPTIONS

#### DATA RATE

#### REMOTE BOOT ROM

- Complies with IEEE-802.3 (ANSI 8802-3)
- SMC 9000 series
- 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
- 10M bits/sec
- Can be installed in byte-wide SSD socket

### MECHANICAL

#### SIZE

#### POWER

#### ENVIRONMENTAL

- 5.75 x 8.0 x 1.2 in. (146 x 203 x 30 mm)
- Power requirements: Contact factory
- Operating temperature (Please refer to the *Ampro Ordering Guide*.)
- 5% to 95% relative humidity, non-condensing
- Storage temperature: -55° C to +85° C
- Weight: 11.6 oz. (329 gm)

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

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FOR A COMPLETE LIST OF  
PANELS SUPPORTED,  
PLEASE VISIT OUR WEBSITE  
[www.ampro.com/support](http://www.ampro.com/support)

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



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