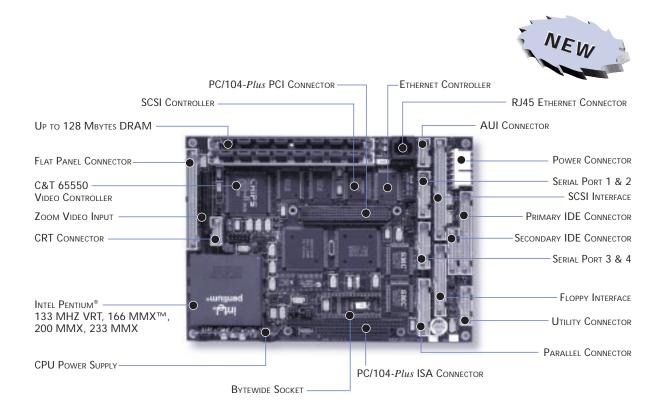
Little Board^M/P5e • Exceptional performance, high integration EBX compliant single board system



The Little Board/P5*e* sets the standard for Pentiumbased embedded-PC designs. The extreme power of an Intel Pentium processor 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 new 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/P5*e* 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/P5*e* the optimal choice for use in punishing embedded environments. Additional reliability enhancements include a watchdog timer, a power-fail NMI generator, and an onboard bootable "solid state disk."

ENHANCED VIDEO SUPPORT

Now the Little Board/P5*e* offers up to 2 Mbytes of video RAM which supports high resolution and true color modes for graphics intensive applications.

A powerful and highly flexible PCI-based display controller interfaces with both flat panels and CRTs, and offers full compatibility with five popular video modes: VESA (SuperVGA), VGA, EGA, CGA, and MDA. Software programmable flat panel interface timing accommodates nearly all LCD and electroluminescent (EL) displays.

SPECIFICATIONS

PC

AD ON

FUNCTIONS	CPU
М	EMORY
DMA IN	Ternal
КЕҮ	BOARD
REAL TIME	CLOCK BIOS
DITIONAL BOARD FUNCTIONS	SERIAL
	RALLEL FLOPPY ED IDE
PCI ULT	RASCSI
BYTEWIDE S	SOCKET
Config e Watchdog Powerfa	TIMER
NTROLLER CONT ONBOARD DISPLA FLAT PANEL SU	
HERNET LAN TERFACE CONTI TEDIA INTERFACE O	ROLLER PTIONS

DATA RATE REMOTE BOOT ROM

MECHANICAL	SIZE
	POWER
ENVIRONMENTAL	

- Depopulated Versions Available! Intel Pentium, 133 MHz VRT, 166 MHz MMX, 200 MHz MMX, 233 MHz MMX
- 256K level two cache
- 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
- 15 interrupt channels (8259 equivalent)
- 7 DMA channels (8237 equivalent)
- 3 programmable counter/timers (8254 equivalent)
- Standard PC/AT keyboard port
- Speaker port with 0.1 watt output
- Battery backed real-time clock and CMOS setup
- Award ROM-BIOS with Ampro enhancements (See Ampro Embedded-PC Enhancements section)
- Four FIFO-buffered serial ports with full handshaking (16550 equivalent)
- Each channel supports either RS232C (direct connection) or RS485 (via the Ampro RS485 Adapter)
- EPP/ECP compatible, bidirectional parallel printer port
- Supports 1 or 2 drives
- Supports up to four drives
- Supports "fast" IDE data transfer modes
- Adaptec AIC-7860
 - Supports SCSI I/II, "UltraSCSI" (20MB/sec), synchronous or asynchronous transfers
 - Usable with 32K-1M byte EPROMs, 32K-512K byte Flash EPROMs, 32K-512K byte SRAMs, or 32K-512K byte NOVRÁMs
- Offboard battery converts SRAM into NOVRAM
- Usable with DiskOnChip2000[™] read/write flash SSD device
- Supports battery-free boot capability
- 512 bits available for OEM use
- Utilizes real time clock alarm function
- Timeout triggers NMI or hardware reset
- Triggers when +5V power drops below +4.7V
- Supports CRT, LCD, and EL displays
- 2 MBytes
- Supports 24-bit "true color" (800 x 600)
- "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
- 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
 - 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.

NOTICE: The product specifications provided in this data sheet are subject to change without CoreModule, MiniModule, Little Board, and The Embedded Solutions Provider are trademark and CoreModule, MiniModule, Little Board, and The Embedded Solutions Provider are trademarks of Ampro Computers, Inc. All other trademarks and registered trademarks are the property of their respective owners.

FOR A COMPLETE LIST OF PANELS SUPPORTED, PLEASE VISIT OUR WEBSITE www.ampro.com/support

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



The Embedded Solutions Provider™

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