

SBC

▶ **LB-501**

Pentium® M 5.25” Embedded Board With VGA/Sound/2 LAN

LB-501 is the new Pentium® M embedded board computer, based on the latest Intel® processor, Pentium® M and Intel® 855GME chipset.

The Pentium® M series allows systems to be thin, light and with low power design. It enables the computer to run robust application with low power consumption. It is an excellent balance of performance and electrical expenditure. In addition, the new Pentium® M series also provides high speed networking availability, supporting dual LAN ports up to 1 Gigabits with Intel® 82541GI chipset.

The 5.25” embedded board supports an Intel® Pentium® M processor up to 1.8 GHz and provides system memory up to 2GB DDR DRAM. The Intel® 855GME chipset , provides multiple display functions, such as analog display, dual independent display. Dual independent display can view two independent video sources when external monitors or panels are connected. The latest AC '97 audio technology is also employed on the LB-501, delivering 20-bit audio for enhanced sound quality and full surrounds sound capability.

Other standard features include 2 EIDE & 1 FDD interfaces, 4 COM ports (COM2 selectable for RS232/422/485), 1 parallel port, 6 USB ports, 1PCI bus, and 1 Compact Flash socket.



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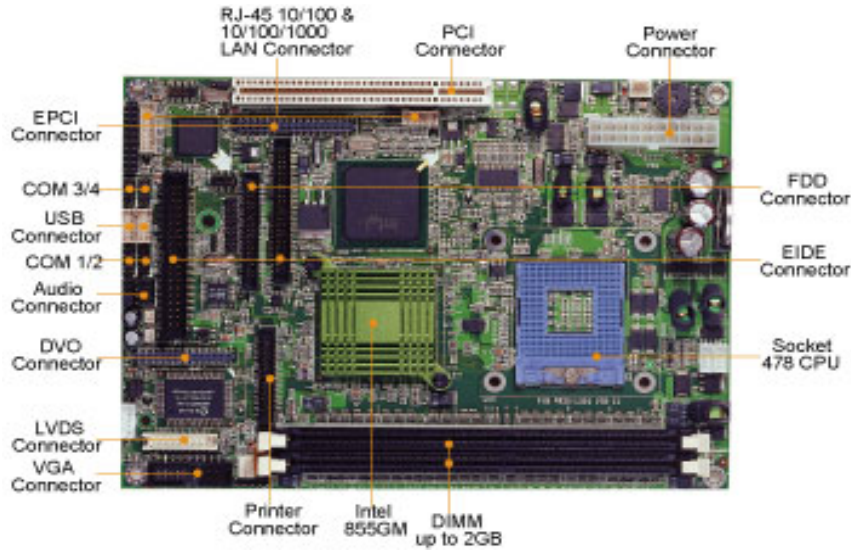
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LB - 501

Socket 478 Pentium® M Board with VGA/Sound/2 LAN



Display Specifications

LB - 501

Graphic	Built-in Intel® 855GME, share system memory Support CRT, LVDS
LCD Interface	18/36-bit LVDS

System Specifications

CPU	Intel® Pentium® M Processor
CPU Frequency	1.3~2.0 GHz
Chipset	Intel® 855GME + ICH4
DRAM	2x184-Pin DDR DIMM, support DDR266 SDRAM up to 2GB
BIOS	Phoenix-Award PnP BIOS, with VGA BIOS
Watchdog	1~255 secs Watchdog timer selectable w/ Reset/NMI
Power Supply	Support AT/ATX power
Power Requirement	+5V, +12V, -12V
Power Consumption	+5V: 2.83A / +12V: 1.96A (Pentium® M 1.3GHz)
Dimension	185mm x 122mm (7.28" x 4.8")

Note: All specifications are subject to change without notice.

Mechanical Specifications

IDE Interface	1 x 40-pin IDE (UDMA 33/66/100) 1 x 44-pin IDE (UDMA 33/66/100)
CF	1 x compact flash slot (IDE)
FDD Interface	1
Operating Temperature	0-60°C (32° ~ 140°F)
Storage Temperature	-40°C - 85°C (~40° ~ 185 °F)
Humidity	Operation humidity 20~90%, Storage humidity 20~95%
Bus Interface	PCI slot, EPCI BUS
Serial Port	4 x COM ports, COM 1/3/4 for RS232, COM 2 for RS232/422/485 (for 16550 compatible type of UART)
Parallel Port	1 x parallel (SPP/EPP/ECP)
IrDA	I (SIR)
Keyboard	4-pin header with mini DIN cable
Mouse	4-pin header with mini DIN cable
LAN	LAN 1: Intel® 82562EM (10/100Mbps) LAN 2: Intel® 82541GI (10/100/1000Mbps) Support Wake-On-LAN with ATX power
Audio	AC '97 Codec, Realtek ALC202A with Line-in/line-out/MIC
USB	4 x USB 2.0



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