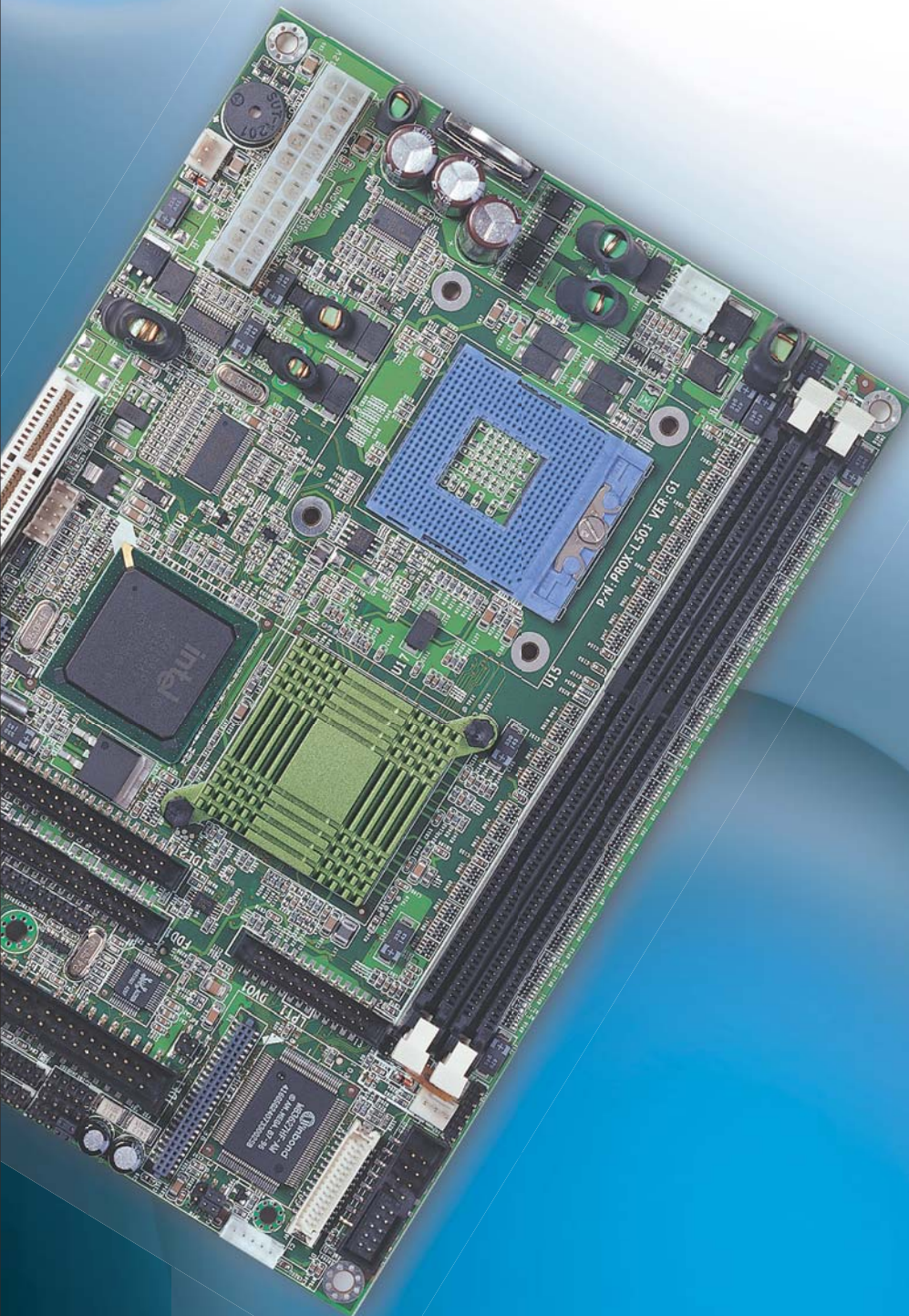


SBC



LB-501

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

LB-501 is a new Pentium® M embedded board based on the latest Intel® Pentium® M processor, and Intel® 855GME chipset. The Pentium® M series allow systems to be thin, light and with low power design. It enables 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 provide high speed networking availability, supporting dual LAN ports up to 1Giga bits with Intel® 82540EM chipset.

The 5.25" embedded board supports Intel® Pentium® M processor up to 1.8GHz and provides system memory up to 2GB DDR DRAM. The Intel® 855GME chipset provides multiple display functions, such as analog display, dual independent displays and Digital Video Out 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 surround 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, 1 PCI bus, and 1 Compact Flash socket.



PROTECH SYSTEMS

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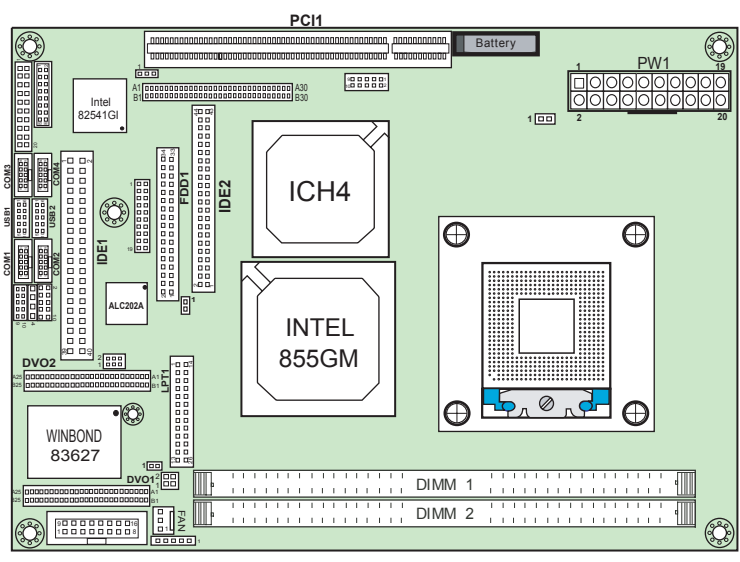
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9001 14001

LB-501

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



Specifications

System	
CPU Type	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")
I/O Chipset	
IDE Interface	1x40-pin IDE (UDMA 33/66/100)1x44-pin IDE (UDMA 33/66/100)
CF	1 x compact flash slot (IDE)
FDD Interface	1
Bus Interface	PCI slot, EPCI BUS
Serial Port	4 x COM ports, COM1/3/4 for RS232, COM2 for RS232/422/485 (for 16550 compatible type of UART)

Parallel Port	1 x parallel (SPP/EPP/ECP)
IrDA	1 (SIR)
Keyboard	4-pin header with mini DIN cable
Mouse	4-pin header with mini DIN cable
LAN	LAN 1: Intel® 82562EM (10/100 Mbps) LAN 2: Intel® 82541GI (10/100/1000 Mbps) 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

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

Environment	
OperationTemp.	0°~60°C(32°~140°F)
Storage Temp.	-40°~85°C(-40°~185°F)
Humidity	Operation humidity 20~90%, storage humidity 20~95%

Ordering Information	
LB-501	5.25" S478 P-M/Celeron-M SBC with VGA/Audio/LAN x 2(10/100Base-T & 10/100/1000Base-T)

PERFORMANCE & POWER CONSUMPTION

CPU Type	3DMark 2001SE Build 330	Multi Media CC Winstone 2003	Business Winstone 2002	Power Consumption +5V / +12V
Pentium® M 1.6GHz	2477	32.9	36.8	2.43 / 3.33

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