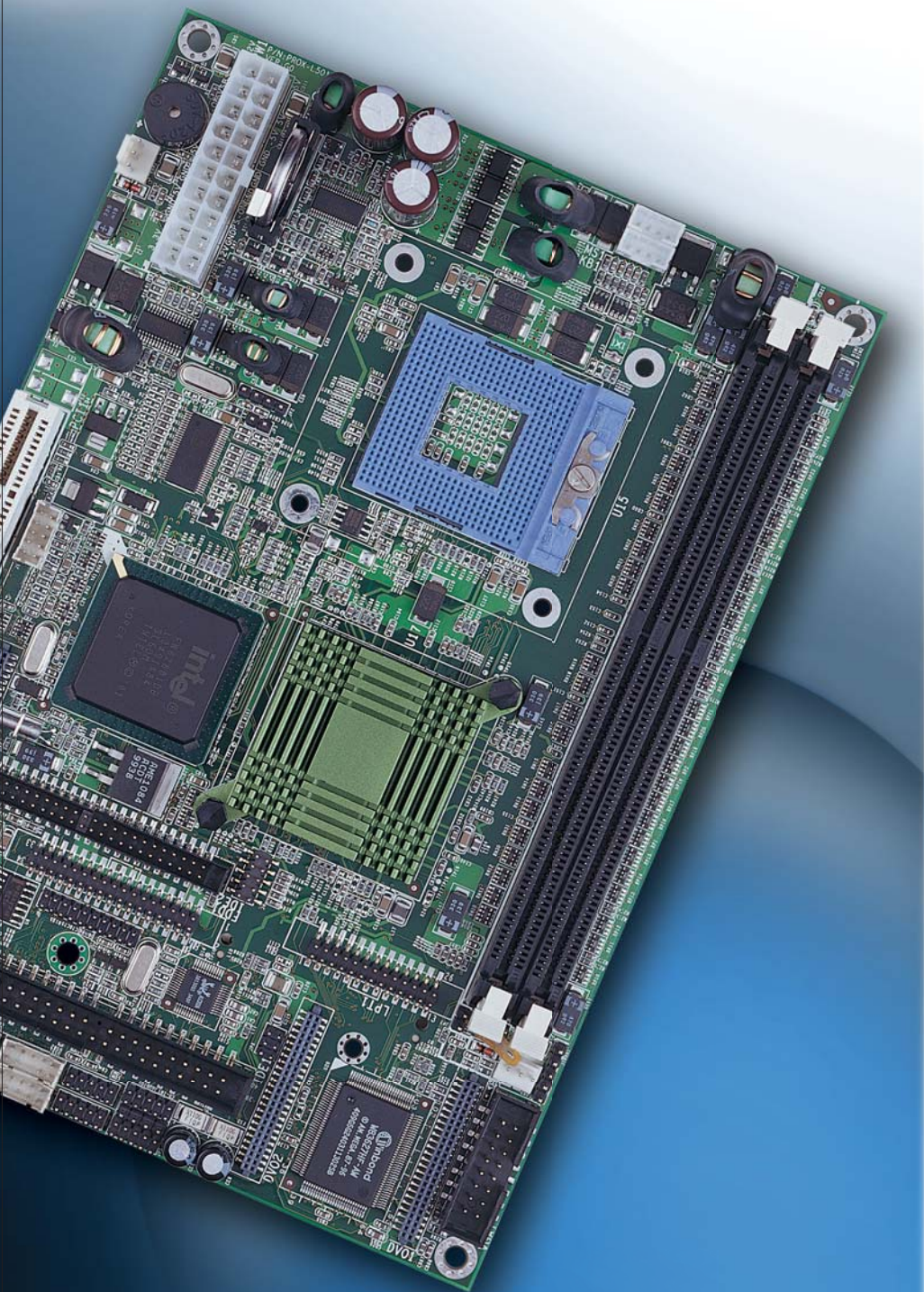# SBC

Prox-L501

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

Prox-L501 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 1Gigabits with Intel ᴿ 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 Prox-L501, 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.
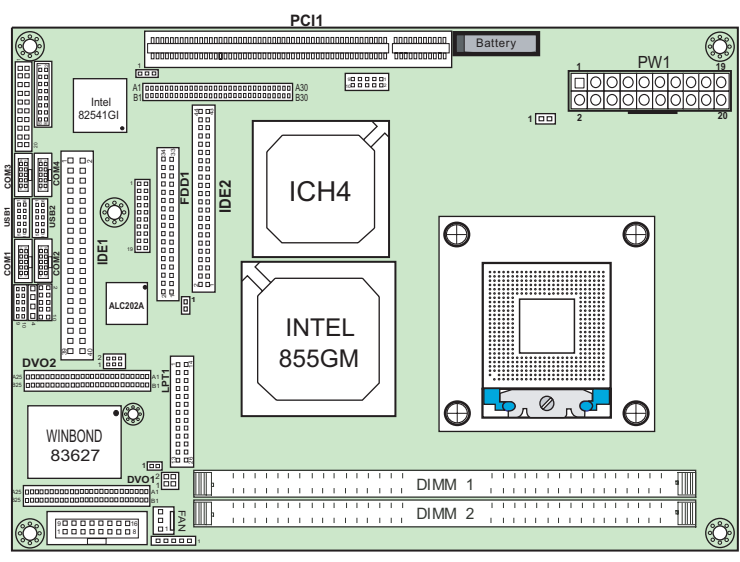
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9001 14001

Prox-L501 *Socket 478 Pentium®M Board with VGA/Sound/2LAN*

Specifications

CPU Type	Intel ® Pentium ® M CPU
CPU Voltage	Auto detect
CPU Frequency	1.3~1.8GHz & up reserved
Chipset	Intel ® 855GME Chipset with ICH4, FWH
DRAM	2 x 184-pin DDR DIMM up to 2GB
Cache	Built-in CPU
BIOS	Phoenix-Award PnP BIOS, 4/8MB, with VGA BIOS
I/O Chipset	LPC, 2 x Winbond W83627HF
IDE Interface	2 x EIDE (UDMA-33/66/100)
FDD Interface	1
Serial Port	4 x 16550 UART, COM2 for RS232/422/485
Parallel Port	1 x parallel (SPP/EPP/ECP)
Watchdog	0~255 sec. Watchdog Timer selectable w/ Reset/NMI
CMOS	Built-in ICH4 with external battery
Keyboard	Mini DIN connector & external connector
Mouse	Mini DIN connector (selectable w/ KB/Y-cable)
Speaker	Internal buzzer
IrDA	1 x IrDA (SIR)
VGA	Built-in Intel®855GME, supports CRT, LVDS (18/24-bit) & DVO, supports dual displays
LAN	LAN1: Intel®82562ET PHY, 10/100 Base-TX Ethernet LAN2: Intel®82551QM or Intel ® 82540EM (10/100/1GB) Supports Wake-on-LAN with ATX power

Sound	AC '97 Codec
USB	6 x USB 2.0
SSD	1 x Compact Flash slot
Bus Interface	1 x PCI
Digital I/O	TTL level, 4 inputs and 4 outputs
Power Supply	Support AT/ATX power
Power Requirement	+5V, +12V
Hardware Monitor	Voltage, CPU temp. & cooling fan
Green Function	Controlled by hardware & software

Mechanical and Environment

Operation Temp.	0 ℃ ~ 60 ℃, 32 ℉ ~ 140 ℉
Storage Temp.	–40 ℃ ~ 85 ℃, -40 ℉ ~ 185 ℉
Humidity	20~90%
Vibration	2.5g acceleration over 5 to 2000Hz sine wave(p-p), 1 oct/min sine sweep
Shock	30g, 11 msec duration, half-sine shock pulse
Dimension	203mm x 146mm, 7.99" x 5.75"
Certificate: CE, FCC CLASS A	

ORDERING INFORMATION

Prox-L501-P0601 with VGA/Sound/LAN1

Prox-L501-P0604 with VGA/Sound/LAN1/LAN2: 1G LAN

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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