SBC
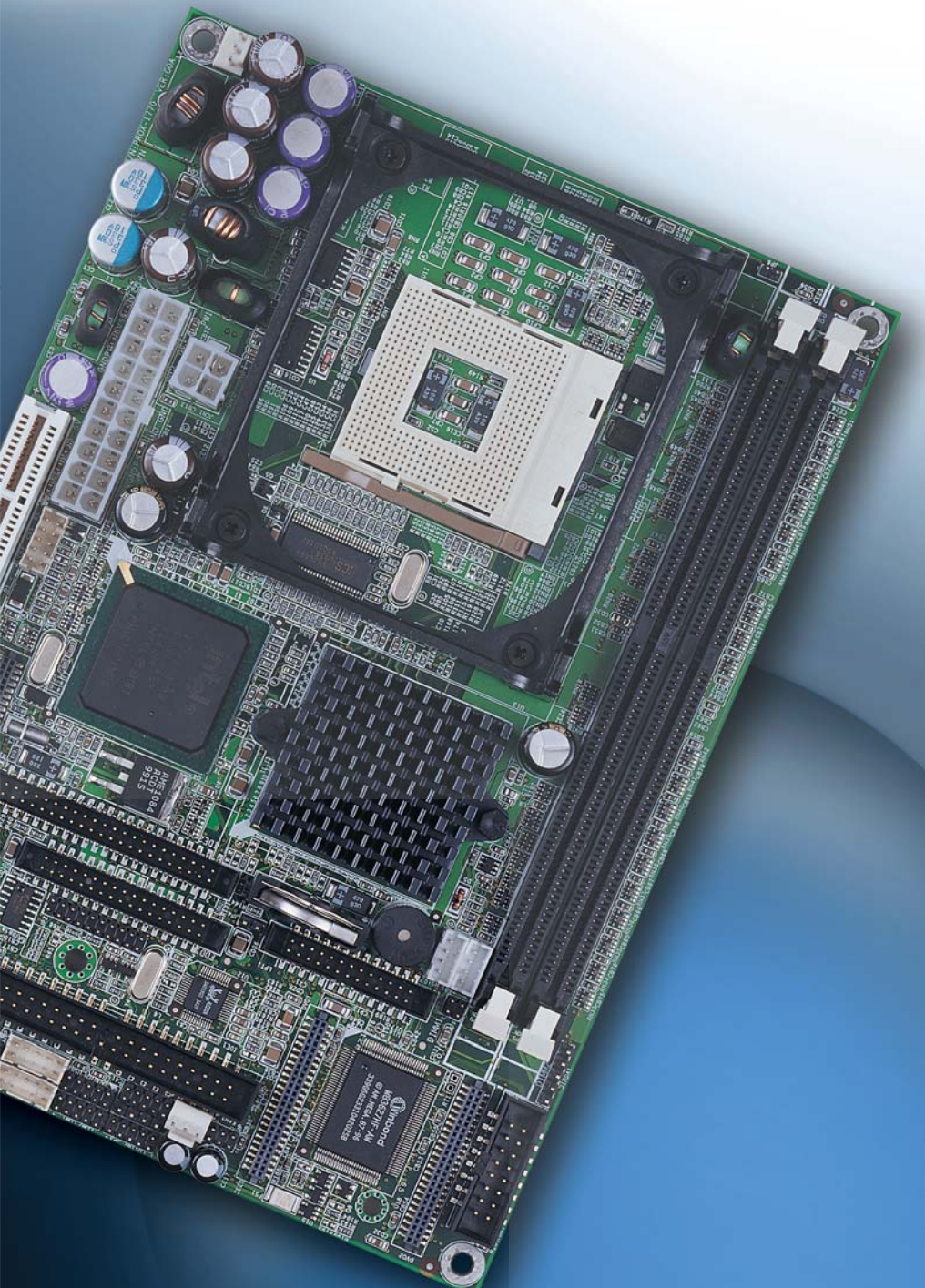
LB-401

Socket 478 P4/P4-M 5.25" Embedded Board with VGA/Sound/2LAN

LB-401 is fitted with the Intel® 845GV chipset which is designed with the high performance 533/400 MHz system bus, interoperable DDR-SDRAM memory, and is optimized to support the Intel® P4/P4-M processor supporting Hyper-Threading Technology.

The LB-401 provides USB 2.0 up to 4 ports. With a much higher bandwidth, USB 2.0 can reach data rates up to 480Mbps; nearly 40 times faster than that of present USB 1.1. The LB-401 also integrates Realtek AC'97 codec sound chip, which supports excellent audio quality up to two channels for full surround sound capability.

Onboard with two LANs, Intel® 82562 ET PHY with 10/100 base Ethernet and Intel® 82551QM or Intel® 82541GI up to 1Giga speed, LB-401 can satisfy the needs for fast speed Internet experiences. It also conforms to the ATX form factor and has a total of two DIMM slots, supporting up to 2GB DDR200/266/333 SDRAM. Expansion slots are also available for 1 PCI, 1 PPCI & 1 Compact Flash slot.

Further standard features include two EIDE interfaces, one FDD, four serial ports (COM2 is selectable for RS232/422/485; COM3 and COM4 are powered serials), one parallel, one KB, one mouse, and one IrDA.

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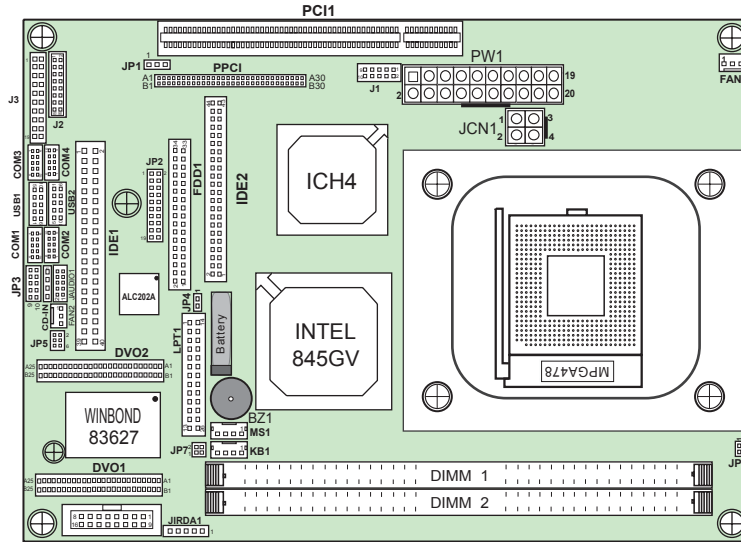
Specifications

System

CPU Type	Intel® Pentium® 4/ Pentium® 4-M / Celeron® processor
CPU Frequency	1.8~3.06GHz
Chipset	Intel® 845GV + ICH4
DRAM	2x184-pin DDR DIMM, support DDR333 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:3.17A /+12V:2.84A (Pentium® 4-M 2.0GHz) +5V:3.42A /+12V:7.98A (Pentium® 4 3.06GHz)
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
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 wtih 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® 845GV, share system memory Support CRT & DVO
LCD Interface	DVO

Environment

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

Ordering Information

LB-401	5.25" S478 P4/P4-M SBC with VGA /audio /LANx2 (10/100Mbps & 10/100/1000Mbps)

Certificate: CE, FCC, CLASS A

PERFORMANCE & POWER CONSUMPTION

CPU Type	3D Mark 2001 SE Build 330	PC Mark 2002	Power Consumption +5V / +12V / +5VSB
Pentium® 4 3.06GHz	1903	7463	3.42A / 7.82A / 0.15A
Pentium® 4-M 1.7GHz	1563	4200	3.17A / 2.64A / 0.17A

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