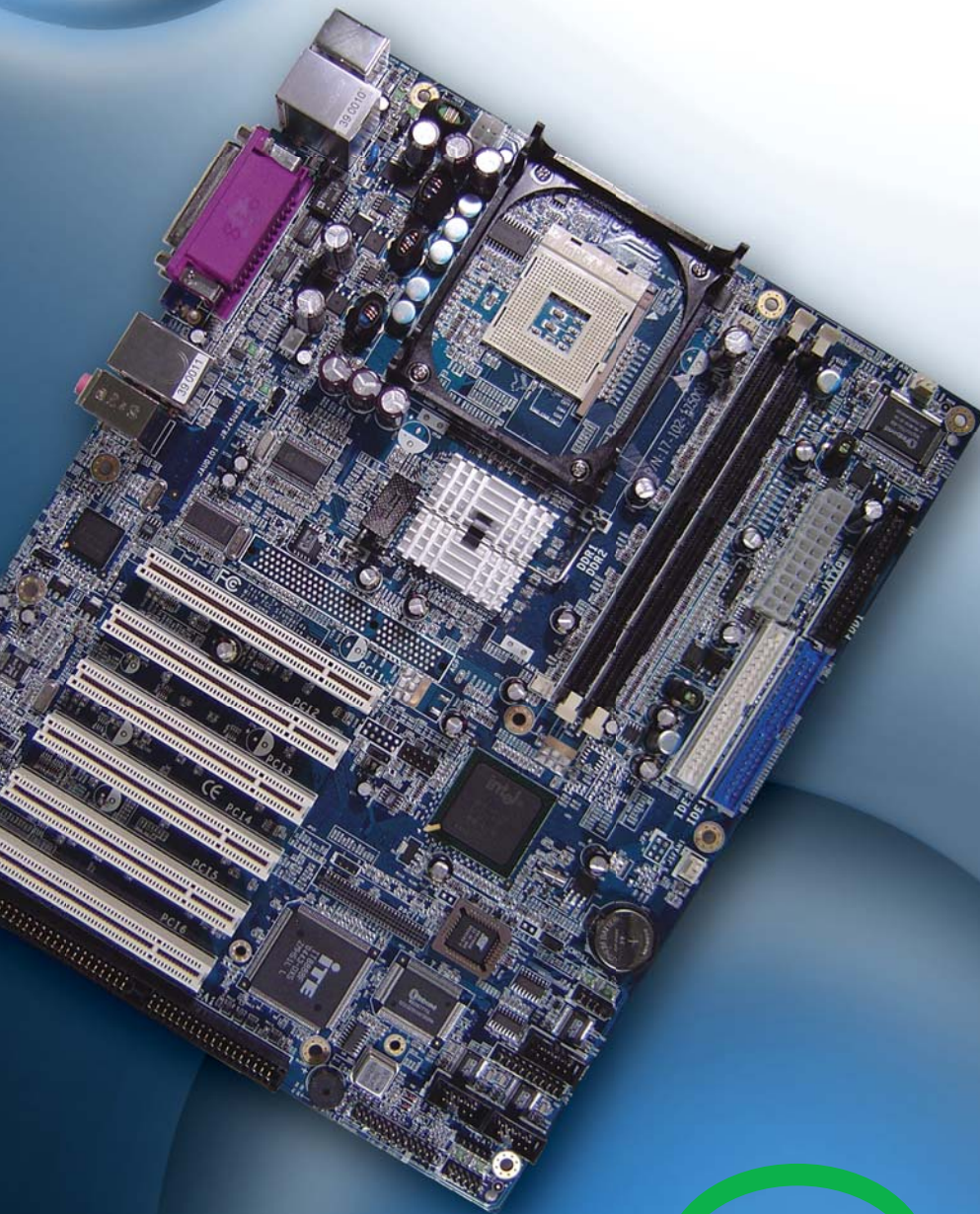# SBC

## PMB-1751LF

### Socket 478 Pentium® 4 Motherboard w / VGA / Audio / 2LAN

*PMB-1751LF* is fitted with the Intel® 845GV chipset which is designed with the high performance 533/400MHz system bus, integrated Intel® Extreme Graphics technology, interoperable DDR-SDRAM memory, and is optimized to support the Intel® Pentium® 4 processor supporting Hyper Threading Technology.

The PMB-1751LF provides USB 2.0 up to 6 ports. With a much higher bandwidth, USB 2.0 can reach data rates of up to 480Mbps; nearly 40 times faster than that of present USB 1.1. The PMB-1751LF also integrates Realtek ALC 202A, AC'97 codec, which supports excellent audio quality with up to two channels for full surround sound capability.

Onboard with two LANs, Intel® 82562ET PHY with 10/100Mbps Ethernet Intel® 82541PI up to 1000Mbps, PMB-1751LF 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 DDR333 SDRAM. Expansion slots are also available for 6 PCI, 1 ISA, 1 PPCI.

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

## PROTECH SYSTEMS

*It's the right choice*

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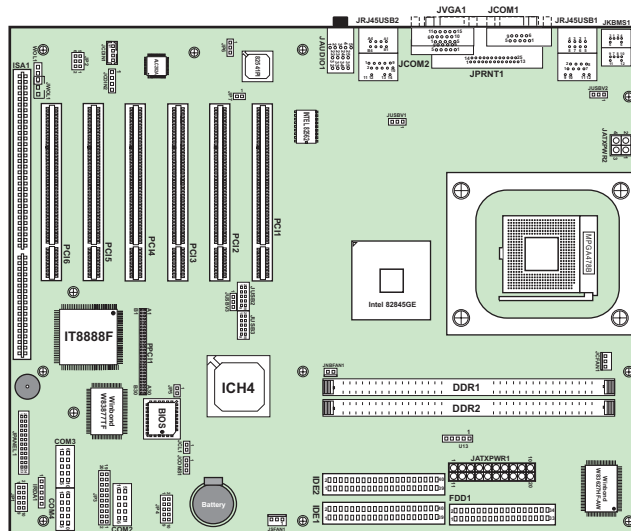Fax: +886-2-8751-1199
Email: sales@protech.com.tw
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**ISO** CERTIFIED
9001 14001

# PMB-1751LF
*Socket 478 Pentium® 4 Motherboard w / VGA / Audio / 2LAN*



## Specifications

### System

| | |
|---|---|
| **CPU Type** | Intel® Pentium® 4 / Celeron® (Precott) processor |
| **CPU Frequency** | 1.4~3.06GHz |
| **Chipset** | Intel® 845GE / GV + ICH4 (FSB : 400/533MHz) |
| **DRAM** | 2 x 184-pin DDR DIMM, support DDR333 SDRAM up to 2GB |
| **BIOS** | Phoenix-Award PnP BIOS, with VGA BIOS |
| **Watchdog** | 16 level Watchdog timer selectable w / Reset / NMI |
| **Power Supply** | Supports ATX power |
| **Power Requirement** | +5V, +12V, +3.3V, 5VSB |
| **Power Consumption** | +5V: 1.78A / +12V: 5.31A / +3.3V: 0.25A (Pentium® 4 2.8GHz) |
| **Dimension** | 305mm x 244mm (12" x 9.61") |

### I/O Chipset

| | |
|---|---|
| **IDE Interface** | 2 x 40-pin IDE (UDMA 33/66/100) |
| **FDD Interface** | 1 |
| **Bus Interface** | 6 x PCI slots,1 x ISA slot, 1 x PPCI slot |
| **Serial Port** | 4 x COM ports, COM1/3/4 for RS232, COM2for RS232/422/485 ( for 16550 compatible type of UART) |
| **Parallel Port** | 1 x parallel (SPP / EPP / ECP) |
| **IrDA** | 1 (SIR) |
| **Keyboard** | Mini DIN connector |

| | |
|---|---|
| **Mouse** | Mini DIN connector |
| **USB** | 6 x USB 2.0 |
| **LAN** | LAN 1 : Intel® 82562ET (10/100Mbps) LAN 2 : Intel® 82541PI (10/100/1000Mbps) Supports Wake-on-LAN wtih ATX power |
| **Audio** | AC '97 Codec, Realtek ALC202A with Line-in / Line-out / MIC |

### Display

| | |
|---|---|
| **Graphic** | Built-in Intel® 845GV, share system memory, Supports CRT |

### 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

| | |
|---|---|
| **PMB-1751LF** | ATX size S478 P4 MB w VGA / Audio / COM x 4 / LAN x 2 (10/100Mbps & 10/100/1000Mbps) ; W/o AGP / ISA x 1 |
| **PMB-1754LF** | ATX size S478 P4 MB w VGA / Audio / COM x 2 / LAN (10/100Mbps) ; W/o AGP / Lan2 / COM3,4 / ISA x 1 |

**Certificate: CE, FCC, CLASS A**

## PERFORMANCE & POWER CONSUMPTION

| CPU Type | 3D Mark 2001 SE Build 330 | PC Mark 2002 | Power Consumption +5V / +12V / +3.3V |
|---|---|---|---|
| Pentium® 4 2.8GHz | 1432 | 6754 | 1.78A / 5.31A / 0.25A |

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