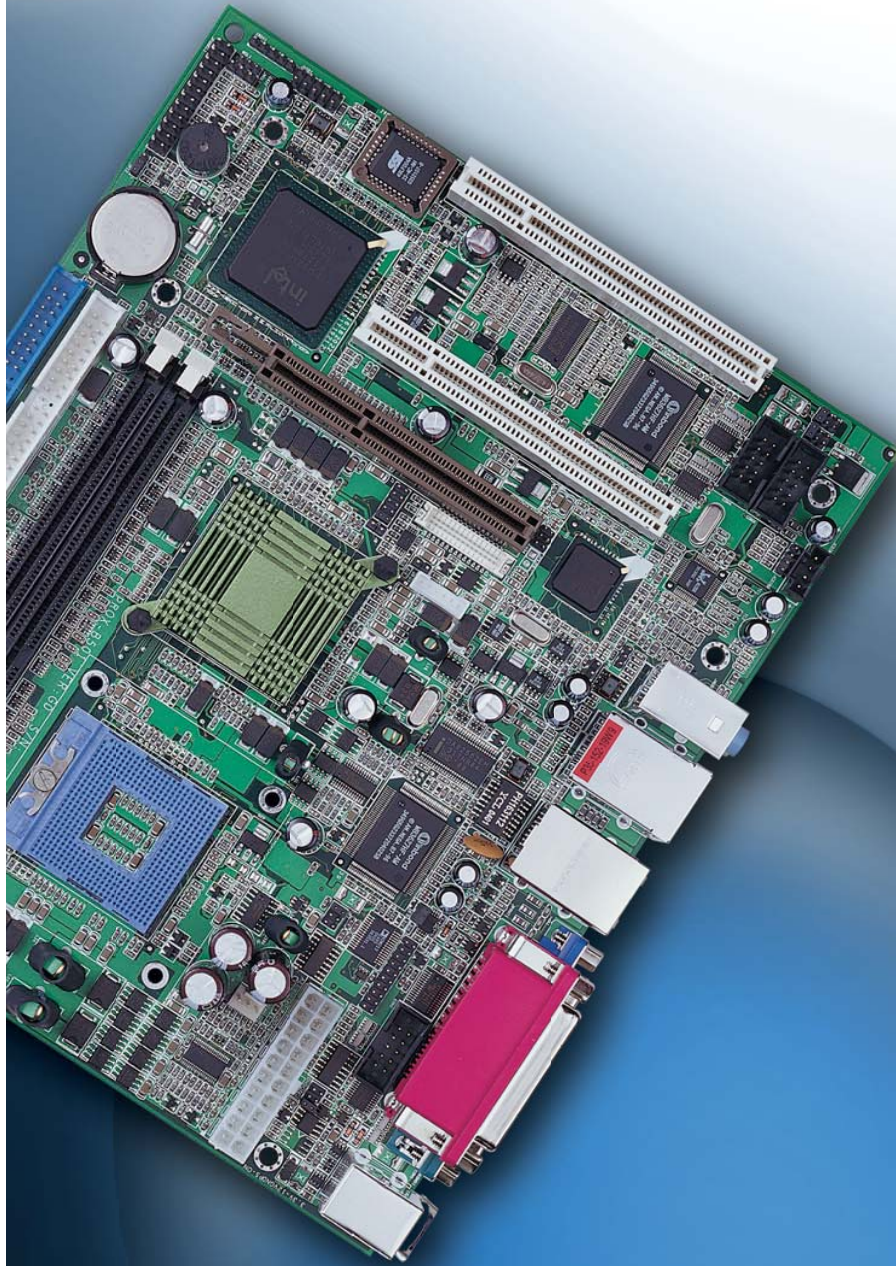


# SBC



## **PMB-501**

### **Socket 478 Pentium® M Flex-ATX Motherboard w / VGA / Audio / 2LAN**

**PMB-501** is a new Pentium® M motherboard based on the latest Intel® processor, Pentium® M and Intel® 855GME chipset. The Pentium® M series allow systems to be thin, light and with low power design. With innovative power management, 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 1000Mbps with Intel® 82541GI chipset.

This Flex-ATX industrial motherboard supports Pentium® M processor running up to 2.0GHz, and is interoperable 2GB double data rate (DDR) SDRAM memory with ECC register module under the control of Intel 855GME chipset, which is an optimized integrated graphics solution with 400MHz system bus and integrated 32-bit 3D core at 133MHz. Besides, onboard USB host controller provides high-performance peripherals with 480MB of bandwidth up to six USB 2.0 ports. Other functions are 2 EIDE connectors, 4 COM ports, CRT, DVO and LVDS display functions, AC '97 Audio, 1 AGP slot, and 2 PCI slots, which help PMB-501 become the best solution for 1U server.



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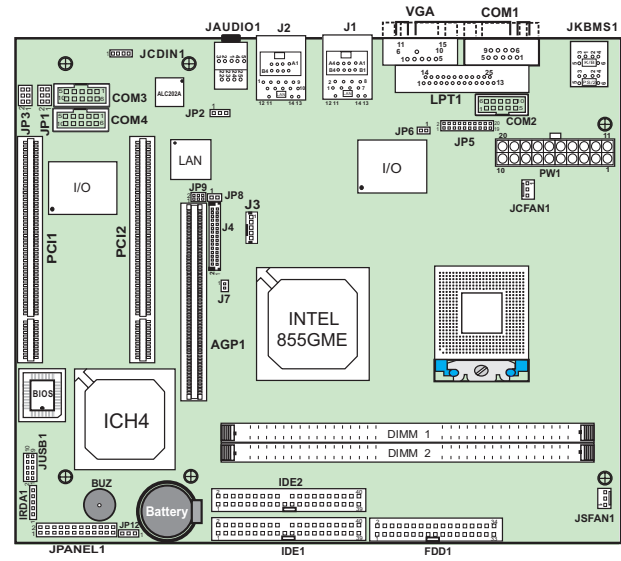
<http://www.protech.com.tw>

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**Communications.**

**Alliance**  
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**BRONZE**

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**9001 14001**

# PMB-501 Socket 478 Pentium® M Flex-ATX Motherboard w / VGA / Audio / 2LAN



Specifications	
<b>System</b>	
<b>CPU Type</b>	Intel® Pentium® M / Celeron® M processor
<b>CPU Frequency</b>	1.3~2.0GHz
<b>Chipset</b>	Intel® 855GME + ICH4 (FSB : 400MHz)
<b>DRAM</b>	2 x 184-pin DDR DIMM, support DDR333 SDRAM up to 2GB
<b>BIOS</b>	Phoenix-Award PnP BIOS, with VGA BIOS
<b>Watchdog</b>	1~255 secs Watchdog timer selectable w / Reset / NMI
<b>Power Supply</b>	Support ATX power
<b>Power Requirement</b>	+5V, +12V, +3.3V, -12V, +5VSB
<b>Power Consumption</b>	+5V : 1.95A / +12V : 2.20A (Pentium® M 1.4 GHz)
<b>Dimension</b>	228.6mm x 190.5mm (9" x 7.5")

I/O Chipset	
<b>IDE Interface</b>	2 x 40-pin IDE (UDMA 33/66/100)
<b>FDD Interface</b>	1
<b>Bus Interface</b>	2 x PCI slots, 1 x AGP slot
<b>Serial Port</b>	4 x COM ports, COM1/3/4 for RS232, COM2 for RS232/422/485 (for 16550 compatible type of UART)
<b>Parallel Port</b>	1 x parallel (SPP / EPP / ECP)
<b>IrDA</b>	1 (SIR)
<b>Keyboard</b>	Mini DIN connector

<b>Mouse</b>	Mini DIN connector
<b>LAN</b>	LAN 1: Intel® 82562EM (10/100Mbps) LAN 2: Intel® 82541GI (10/100/1000Mbps) Support Wake-on-LAN with ATX power
<b>Audio</b>	AC '97 Codec, Realtek ALC202A with Line-in / Line-out / MIC
<b>USB</b>	6 x USB 2.0

Display	
<b>Graphic</b>	Built-in Intel® 855GME, share system memory, Support CRT, LVDS, AGP (with DVO card)
<b>LCD Interface</b>	18/36-bit LVDS
Environment	
<b>Operation Temp.</b>	0°~60°C(32°~140°F)
<b>Storage Temp.</b>	-40°~85°C(-40°~185°F)
<b>Humidity</b>	Operation humidity 20~90%, Storage humidity 20~95%

Ordering Information	
<b>PMB-501</b>	Flex ATX size S478 P-M / Celeron-M MB w VGA / Audio / LAN x 1 (10/100Mbps)
<b>PMB-501-E2G</b>	Flex ATX size S478 P-M / Celeron-M MB w VGA / Audio / LAN x 2 (10/100Mbps & 10/100/1000Mbps)
<b>Certificate: CE, FCC, CLASS A</b>	

## PERFORMANCE & POWER CONSUMPTION

CPU Type	3DMark 2001SE Build 330	Multi Media CC Winstone 2003	Business Winstone 2002	Power Consumption +5V / +12V / +3.3V
Pentium® M 1.6GHz	2477	32.9	36.8	2.43 / 3.33 / 0.60

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