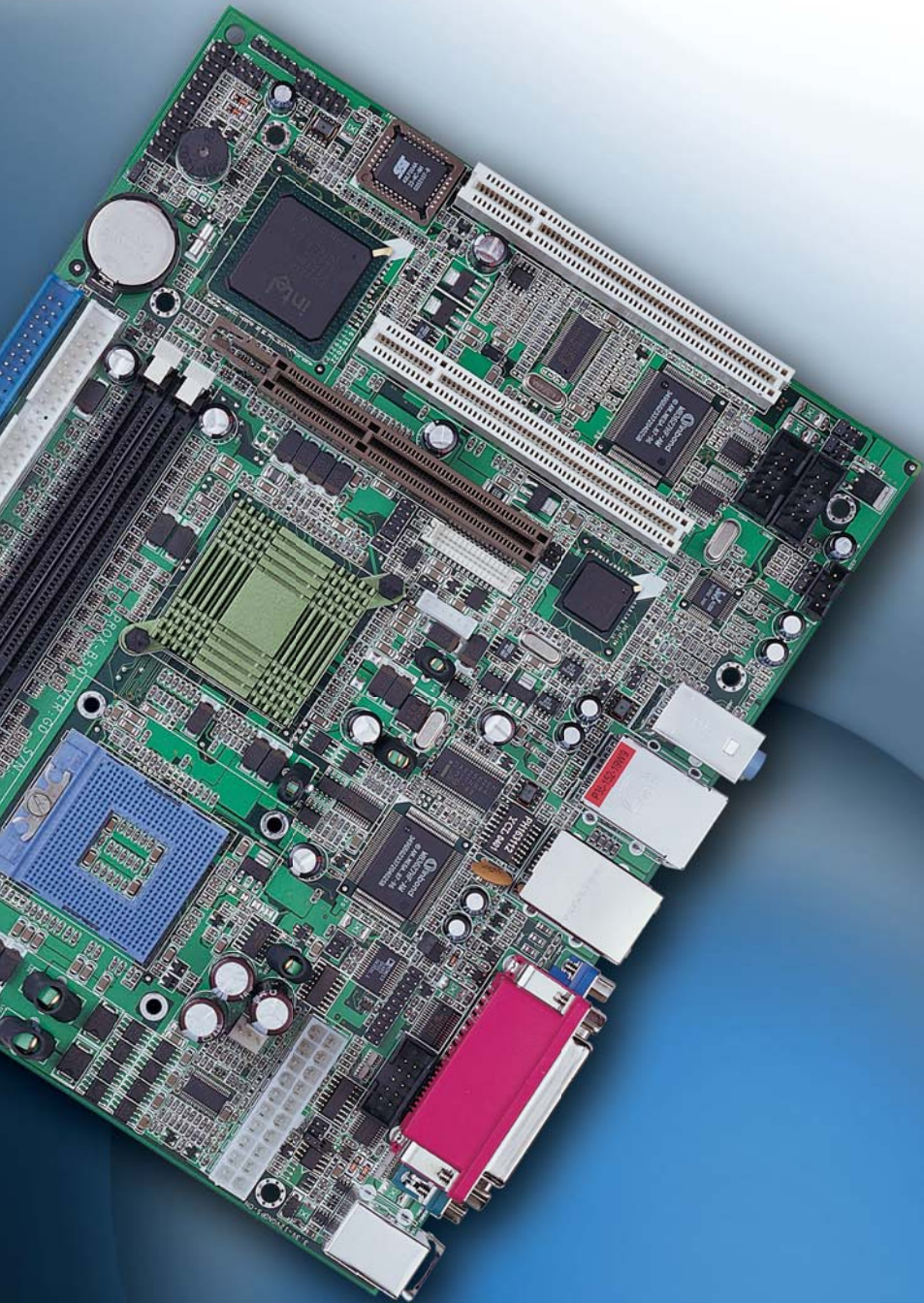# SBC

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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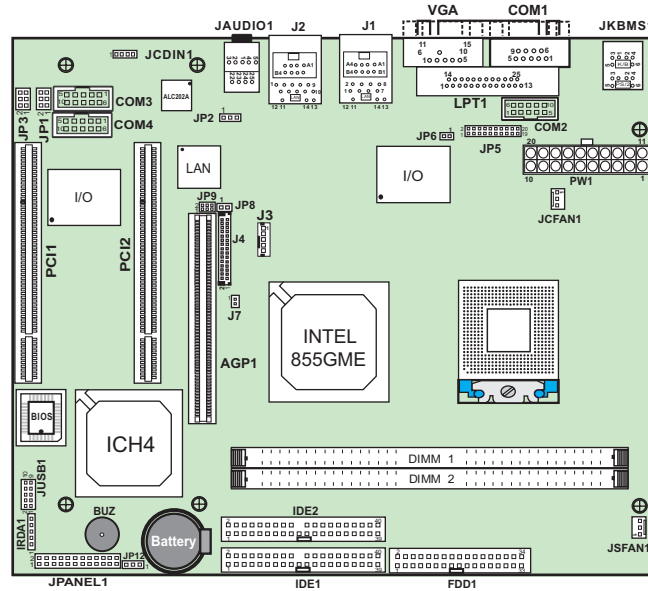
Specifications

System

CPU Type	Intel® Pentium® M / Celeron® M processor
CPU Frequency	1.3~2.0GHz
Chipset	Intel® 855GME + ICH4 (FSB : 400MHz)
DRAM	2 x 184-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 ATX power
Power Requirement	+5V, +12V, +3.3V,-12V, +5VSB
Power Consumption	+5V : 1.95A / +12V : 2.20A (Pentium® M 1.4 GHz)
Dimension	228.6mm x 190.5mm (9" x 7.5")

I/O Chipset

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

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

Display

Graphic	Built-in Intel® 855GME, share system memory, Support CRT, LVDS, AGP (with DVO card)
LCD Interface	18/36-bit LVDS

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-501	Flex ATX size S478 P-M / Celeron-M MB w VGA / Audio / LAN x 1 (10/100Mbps)
PMB-501-E2G	Flex ATX size S478 P-M / Celeron-M MB w VGA / Audio / LAN x 2 (10/100Mbps & 10/100/1000Mbps)

Certificate: CE, FCC, CLASS A

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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