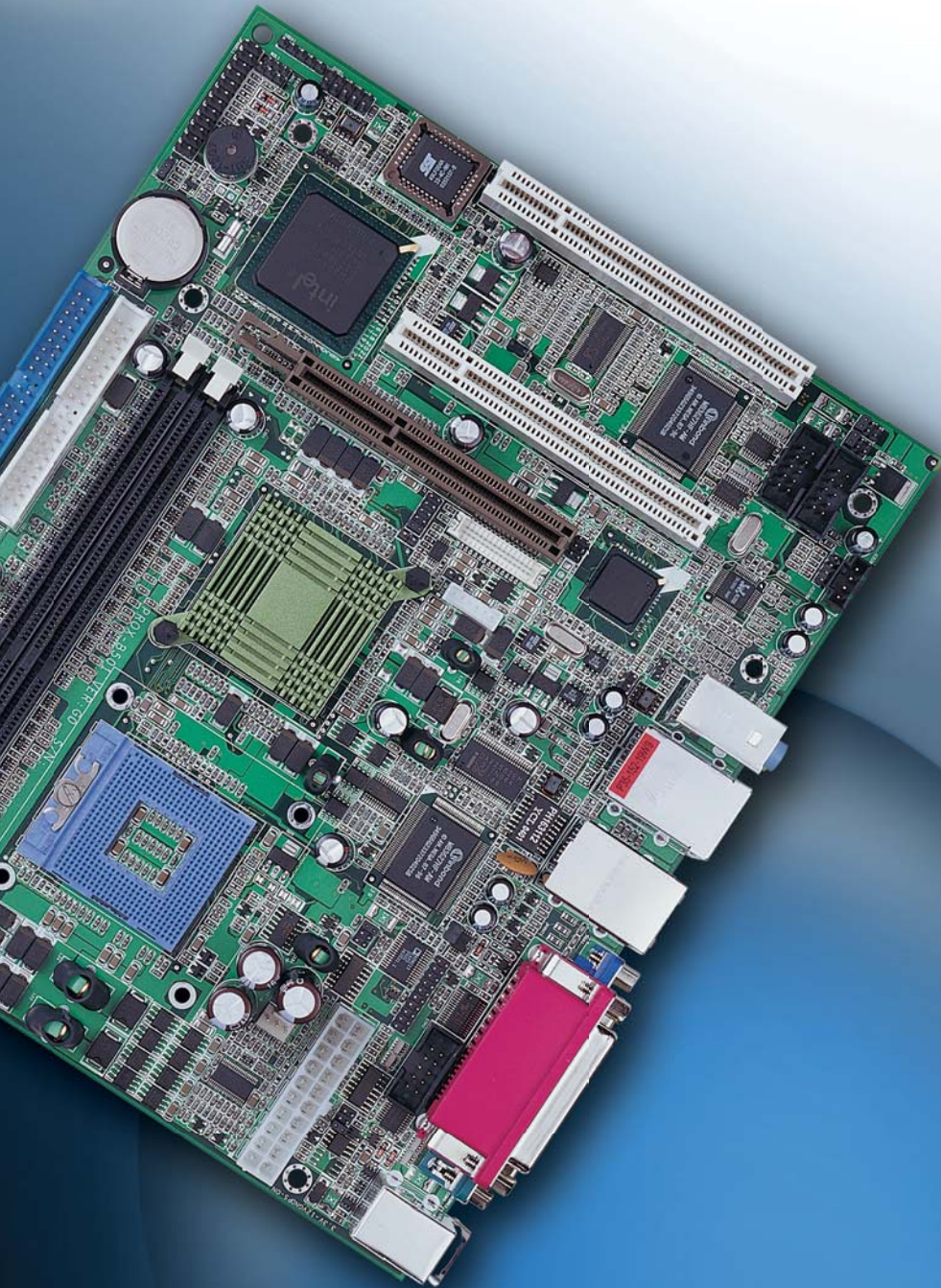# SBC

Prox-B501

Pentium® M Flex-ATX Motherboard with VGA/Sound/2LAN

Prox-B501 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 1Gigabits with Intel® 82540EM chipset.

This Flex-ATX industrial motherboard supports Pentium ® M processor running up to 1.8GHz, 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 The Prox-B501 become the best solution for 1U server.
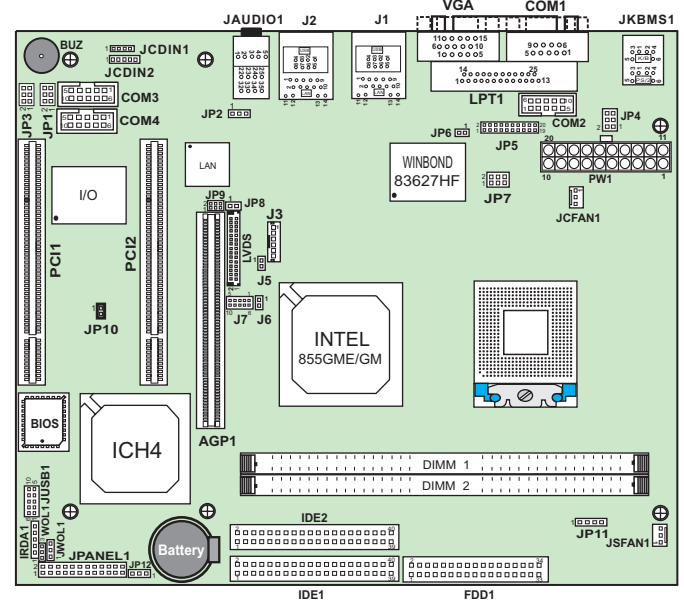
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Prox-B501 *Pentium® M Flex-ATX Motherboard with VGA/Sound/2LAN*

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, Winbond
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
CMOS	Built-in ICH4
Keyboard	Mini DIN connector
Mouse	Mini DIN connector
Speaker	Internal buzzer
IrDA	1 x IrDA (SIR)
LAN	LAN1: Intel®82562EM PHY, 10/100 Base-TX Ethernet LAN2: Intel® 82540EM (10/100/1GB), Supports Wake-on-LAN with ATX power

VGA	Built-in Intel®855GME, support CRT, DVO & LVDS
Sound	AC '97 Codec, with line-in/out, mic
USB	6 x USB 2.0
Bus Interface	1 AGP, 2 PCI Bus slots
Power Supply	Support ATX power
Power Requirement	±5V, ±12V, +3.3V, and +5V standby
Hardware Monitor	Voltage, CPU temp. & cooling fan
Green Function	Controlled by hardware & software

Mechanical and Environment

Operation Temp.	0℃ ~ 60℃, 32˚F ~ 140˚F
Storage Temp.	-40℃ ~ 85℃, -40˚F ~ 185˚F
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	228.6mm x 190.5mm, 9" x 7.5"

Certificate: CE, FCC CLASS A

ORDERING INFORMATION

Prox-B501-P0601 with VGA/Sound/LAN1/2 COM

Prox-B501-P0604 with VGA/Sound/LAN1/LAN2: 1G LAN/4 COM

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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