

LMB-680BX

PCI/ISA-bus
Pentium II SBC
with AGP , Ethernet ,
SCSI on-board

Features

- ◆ Full-size Pentium II SBC, PCI/ISA-bus with PICMG 2.0 standard
- ◆ Solt-1 socket on the reverse side
- ◆ Supports on-board VGA/ Ethernet / SCSI optional functions
- ◆ Software Programmable Watchdog Timer

Specifications

System Chipset

- ◆ Intel 440BX AGP set

Processor

- ◆ Intel Pentium II CPU up to 450 MHz

Clock Generator

- ◆ IC WORKS, clock generator & clock buffer
- ◆ Processor bus supports Pentium II processor at 66 / 100 MHz

Main Memory

- ◆ Support 66 / 100 MHz memory bus
- ◆ Two 25-degree ,168-pin DIMM and enhanced fixed Sockets
- ◆ Support Up to 256 MB EDO RAM or SDRAM, in future supports 512MB
- ◆ 64-bit data interface with 8-bit ECC functionality

2nd Level Cache

- ◆ Provided by Pentium II

AGP

- ◆ Chips: Cirrus Logic CL-GD5465 High-Performance 3D AGP Graphics Accelerator (AGP1.0)
- ◆ 66MHz AGP interface
- ◆ Display Memory: 4MB RDRAM on-board
- ◆ Resolution up to 1600*1200 at 85Hz
- ◆ True color operation up to 1024* 768
- ◆ VGA Connector: 15-pin D-type connector

LAN

- ◆ Chips: Realtek 8139 A
- ◆ 10/100 Mbps Ethernet, RJ45 Connector with TX, LINK LED indicators

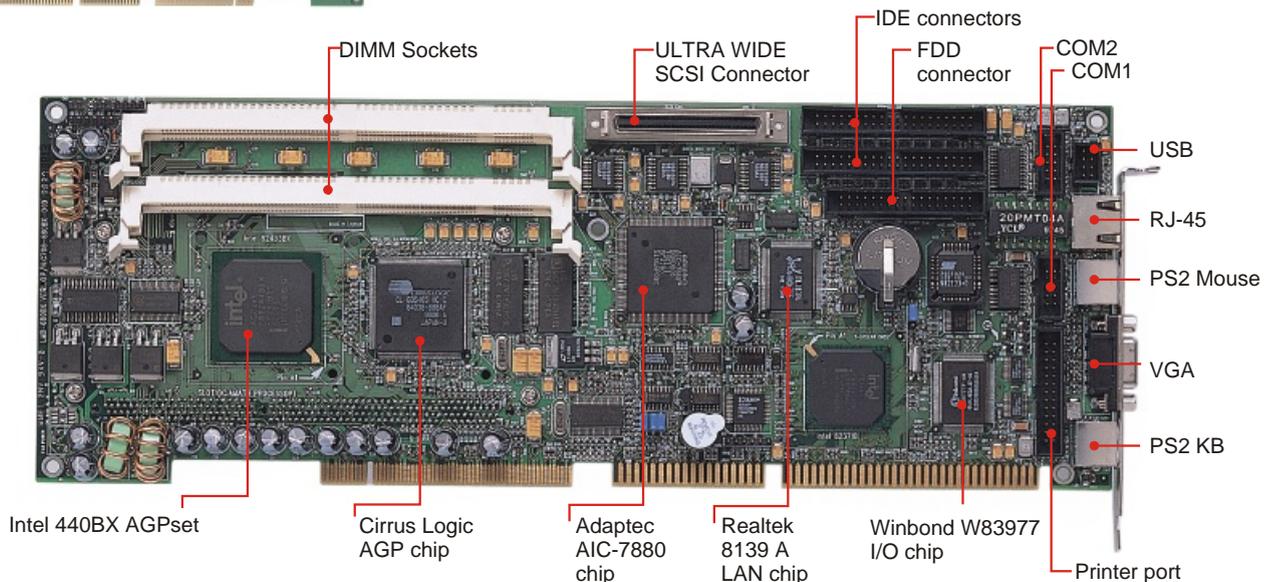
SCSI

- ◆ Chips: Adaptec 7880
- ◆ 68-pin Connector, Wide SCSI

Pentium II on the rear side:
A more stable design



Slot 1 connector

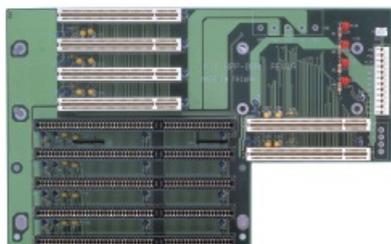


PICMG 2.0 Standard



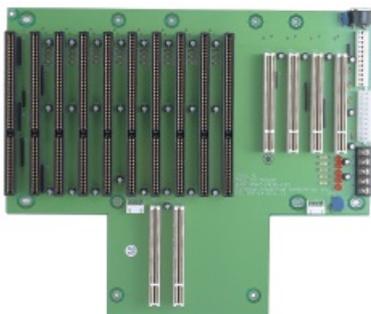
BPP-06

- ◆ 255mm x 134mm (10"x5.3")



BPP-08B

- ◆ 270mm x 169mm (10.6"x6.7")



BPP-14

- ◆ 311mm x 264mm (12.2"x10.4")

BIOS

- ◆ Y2000 compliant
- ◆ 256KB AWARD Flash ROM BIOS, PnP (Plug & Play)

Integrated IDE controller

- ◆ Ultra DMA/33, supports two PCI-bus master IDE channels
- ◆ Supports up to 4 devices

Enhanced DMA controller

- ◆ Two 82C37 DMA Controller
- ◆ Supports PCI DMA with 3 PC/PCI Channels and Distributed DMA Protocols

Interrupt Controller

- ◆ Two 82C59, supports 15 levels interrupt

USB Interface

- ◆ Two USB 1.0 Ports, 8-pin connector

RTC (Real Time Clock)

- ◆ Built-in Chip 256-bytes Battery-Backup CMOS SRAM
- ◆ Powered by non-rechargeable lithium battery

Timer

- ◆ Based on 82C54

I/O

- ◆ Chipsets: Winbond W83977TF
- ◆ Serial Port: Two 10-pin internal RS-232 connectors (COM1 and COM2); High-speed 16550 compatible UARTs with 16-byte send/receive FIFOs
- ◆ IR Interface: 6-pin header
- ◆ Floppy Disk Interface: One 34-pin FDD Connector supports up to two floppy drives
- ◆ Parallel Port: One Bi-directional Parallel Port supports EPP and ECP mode
- ◆ Keyboard Connector: PS/2 type
- ◆ Mouse Connector: PS/2 type

Watchdog Timer

- ◆ 0 ~ 63 seconds software programmable

Others

- ◆ Reset: 2-pin header
- ◆ HD-LED: 2 pin header
- ◆ Speaker: 4-pin header
- ◆ Fan Power: 3-pin header +12V

Board Type

- ◆ 6-layer PCB, single-side SMT design

Power Regulator

- ◆ On-board Switching Voltage Regulator (Harris HIP6019)

Software Compatible

- ◆ DOS 6.22, Windows 95, Windows 98, Win NT 3.51, Win NT 4.0, OS2

Environment

- ◆ Power requirement: 29W (PentiumII 350)
- ◆ Operating Temperature: 0-60°C (32-140°F)
- ◆ Storage Temperature: -20-80°C (-4-176°F)
- ◆ Power Supply Voltage: +5VDC (±0.25V), ±12VDC (±0.6V)
- ◆ Relative Humidity: 5%-95% (Non-condensing)

Required Certification

- ◆ CE Mark

Dimension

- ◆ L * W : 340 x 122 (mm)

* Information in this document is believed to be correct at the time of printing, and it is subject to change without further notice.

* All brands and product names are trademarks and/or registered trademarks of their respective owners.

Order Information

- ◆ LMB-680BX-00: Pentium II Full-size CPU Card with VGA, LAN, SCSI on board
- ◆ LMB-680BX-01: Pentium II Full-size CPU Card with VGA, LAN on board
- ◆ LMB-680BX-02: Pentium II Full-size CPU Card with VGA on board
- ◆ LMB-680BX-03: Pentium II Full-size CPU Card (without VGA, LAN, SCSI)
- ◆ Passive Backplane: BPP-06, BPP-08B, BPP-11, BPP-14

IP0871102