FORMOSA INDUSTRIAL COMPUTING, INC.

LMB-680BP

PCI/ISA Bus
Pentium II SBC
with VGA
and Ethernet
on-Board

Pentium II on the rear side:
A more stable design

Slot 1 connector

Features

- Full-size Pentium II SBC, PCI/ISA-bus with PICMG 2.0 compliance
- Single-side SMT design with Right Angle Slot-1 CPU Connector on reverse side
- Flexible configuration on VGA and LAN by Customer's needs
- Supports Flat Panel, WDT, SSD, and H/W Status Monitoring

Specification

CPU
- Intel Celeron, Pentium II, and Pentium III up to 500 MHz

Bus Interface
- PCI/ISA Bus with PICMG 2.0 compliance

Chipset
- Intel 440BX AGP Chipset with 66/100 MHz Front-Side Bus Support

System BIOS
- 256K Bytes Award PnP Flash ROM BIOS with Y2K Compliance

Operating System
- DOS 6.22 or above version
- Windows 98 or above version
- Windows NT 4.0 or above version
- QNX 4.24
- OS/2 4.0

Cache Memory
- 512 ~ 128K CPU on-board Cache Memory

System Memory
- Three 168-pin DIMM Sockets support Memory up to 384MB
- Supports 3.3V 8MB, 16MB, 32MB, 64MB, or 128M EDORAM (66MHz) and SDRAM (100MHz)
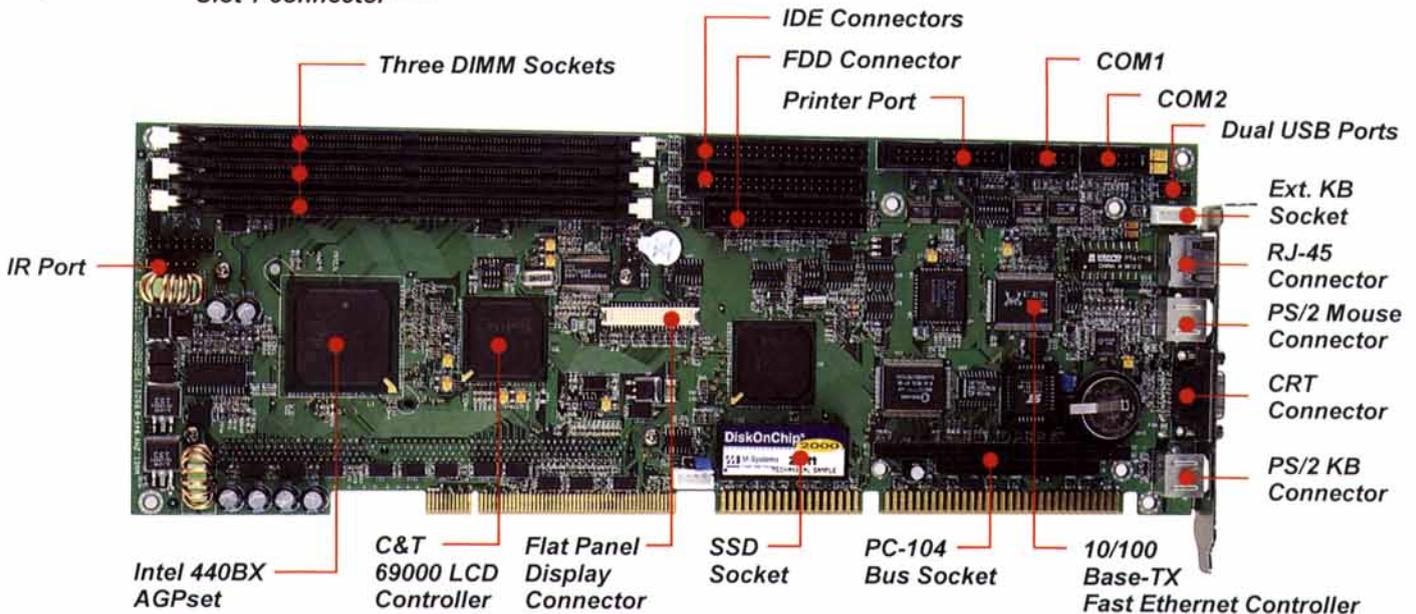
Graphic and Video (optional)
- C&T 69000 Graphic Accelerator w/ Build-in 2MB SDRAM
- Simultaneously supports non-interlaced CRT & LCD Flat Panel up to 1024 x 768 @ 64K Colors
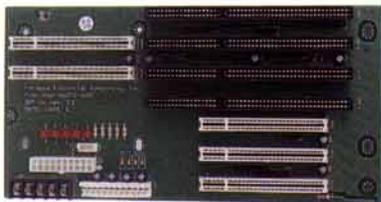
LAN (optional)
- Realtek 8139A Fast Ethernet Controller
- Supports 10/100 Mbps Data Transfer Rate
- External Shielded RJ-45 Modular Jack with built-in LEDs Indicator

SSD Interface
- One 32-pin DIP socket supports M-Systems DiskOnChip 2000 series up to 144MB

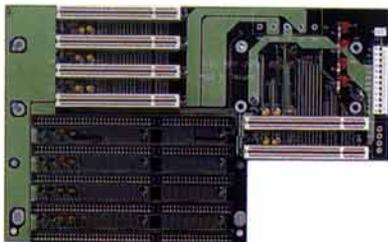Three DIMM Sockets — IDE Connectors — FDD Connector — Printer Port — COM1 — COM2 — Dual USB Ports — Ext. KB Socket — RJ-45 Connector — PS/2 Mouse Connector — CRT Connector — PS/2 KB Connector — IR Port — Intel 440BX AGPset — C&T 69000 LCD Controller — Flat Panel Display Connector — SSD Socket — PC-104 Bus Socket — 10/100 Base-TX Fast Ethernet Controller

CE · PICMG · AGP · PC/104 · Y2K Compliance

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Passive Backplane

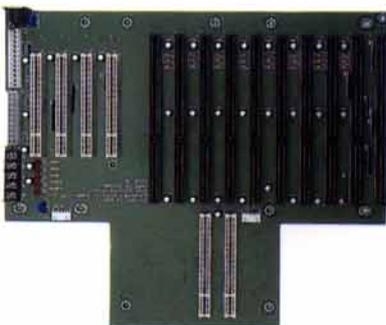**BPP-06**
* 255mmx134mm (10"x5.3")

BPP-08B
* 270mmx169mm (10.6"x6.7")

BPP-14
* 311mmx264mm (12.2"x10.4")

Floppy Disk Drive Interface
* Support up to two floppy disk drives, 5.25" (360KB or 1.2MB), 3.5" (720KB or 1.44 / 2.88MB), 3.5" (1.2 MB; Floppy 3 Mode), or 3.5" (120MB, 1.44MB, or 720KB; LS-120)

IDE Hard Disk Drive Interface
* Supports two PCI Local Bus IDE Interface for up to four devices
* Supports PIO Mode 0 ~ 4, DMA Mode 2, and Ultra DMA / 33

Serial Port
* Two Internal High Speed 16550 Fast UART Serial Ports, one for RS-232 and one for RS-232/422/485

PC-104 Port
* One PC-104 Bus Interface

Parallel Port
* One Internal SPP/EPP/ECP Bidirectiontal Parallel Port

IR Port
* One Internal IR Interface

USB Port
* Two Internal USB Ports

Keyboard Connector
* One External PS/2 Type Keyboard Connector

Ext. KB Header
* One additional 5-pin KB Header for IPC application

Mouse Connector
* One External PS/2 Type Mouse Connector

Watchdog Timer
* Software Programmable Watchdog Timer
* Timeout intervals range from 1 to 64 seconds

H/W Status Monitoring
* Supports Power Supply Voltages, Fan Speeds, and Temperatures Monitoring

Real Time Clock
* 256 Bytes Chip built-in CMOS SRAM
* Backup by 3V Non-Rechargeable Lithium Cell Battery

Power Requirement
* Supports AT/ATX Power Supply
* DC Voltage : + 5V ($\pm$0.25V), 12V ($\pm$0.6V)
* DC Current : 5A, 0.3A
  (Power Dissipation will vary with CPU types and system Configurations)

ATX Function
* Supports Wake-on-LAN and Software Power-off

Green Function
* Supports Power Management operation via BIOS, activated by Keyboard or Mouse activity

Dimension
* 340 mm (L) x 122 mm (W)

Weight
* 417g (LMB-680BP with VGA / LAN)

Temperature
* Operating   : 32 to 140 $^\circ$F(0 to 60 $^\circ$C)
* Non-Operating : -4 to 176 $^\circ$F(-20 to 80 $^\circ$C)

Relative Humidity
* Operating   : 10 % to 90 % (Non-Condensing)
* Non-Operating : 5 % to 95 % (Non-Condensing)

Order Information

* LMB-680BP-00   : Pentium II Full-size CPU Card with VGA and LAN on board
* LMB-680BP-01   : Pentium II Full-size CPU Card with VGA on board
* LMB-680BP-02   : Pentium II Full-size CPU Card (without VGA and LAN)
* Passive Backplane : BPP-06, BPP-08, BPP-11, BPP-14

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