CMB-671

Mini Barebone system
Intel Pentium M Platform
Installation Guide
Edition 1.0
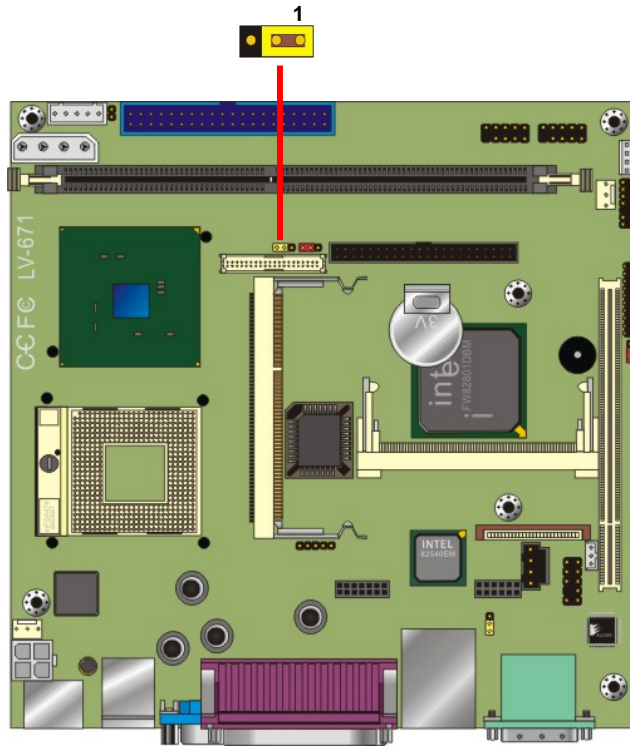2004/10/05

Addendum Notice

Please leave the **JCFSEL** as 1-2 for Master mode, and set the IDE2 HDD as Slave mode if you need to use the CF card.

Jumper: **JCFSEL**
Type: onboard 3-pin header

JCFSEL	Mode
1-2	Master
2-3	Slave

Default setting

Document Content:

● Packing List

● Product Specification

● Hardware Installation

Packing List:

CMB-671 Chassis x 1

(Including LV-671 Motherboard)

SPD-080-12A 80W AC-DC Adapter x 1

Power Cord x 1

CPU Cooler x 1   ATAPI Power Cord x1

40-pin to 40-pin ATA33 IDE Cable x1 (24CM)

44-pin to 44-pin ATA33 IDE Cable x1 (7CM)

PCI-2P1 PCI Riser Card x1

4 x Plastic spacers

CD Driver x1

Printed Installation Guide x1

Product Specification:

General Specification	
CPU	Intel Pentium® M/Celeron M® processor Package: 478 pin PGA/ 479 pin BGA L2 Cache: 512KB/1MB/2MB FSB: 400MHz
Memory	1GBytes DDR200/266/333 SDRAM on one 184-pin DIMM socket ECC memory is supported
Chipset	Intel 82855GME GMCH and 82801DB ICH4
BIOS	Phoenix-Award v6.00PG 4Mb PnP flash BIOS
Green Function	Power saving mode includes doze, standby and suspend modes. ACPI version 1.0 and APM version 1.2 compliant
Watchdog Timer	System reset programmable watchdog timer with 1 ~ 255 sec./min. of timeout value
Real Time Clock	Intel ICH4 built-in RTC with lithium battery
Drive Bay	One 2.5 inch HDD drive bay One 5.25 inch slim type CD-ROM drive bay

Multi-I/O Port	
Chipset	Intel 82801DB ICH4 (USB) and Winbond W83627HF-AW LPC Super I/O controller
Serial Port	Two external RS-232 serial port with 16C550 compatible UART and 16 bytes FIFO
USB Port	Six Hi-Speed USB 2.0 ports with 480 Mbps of transfer rate
Parallel Port	One external bi-direction parallel port with SPP/ECP/EPP mode
K/B & Mouse	External PS/2 keyboard and mouse ports on rear I/O panel

Card Bus	
PCMCIA	One PCMCIA Type I/II slot (5V/3.3V auto-switching)

VGA Display Interface	
Chipset	Intel 855GME GMCH built-in Intel Extreme Graphics 2 With 266 MHz VGA core and 256-bit 3D engine
Frame Buffer	Intel DVMT (Dynamic Video Memory Technology) 2.0 up to 64Mbytes shared with system*
Display Type	CRT and LCD monitors for analog display

Ethernet Interface	
Chipset	Intel PRO/1000+ LAN interface with Intel 82540EM
Type	10Base-T / 100Base-TX/1000Base-T, auto-switching Fast Ethernet Full duplex, IEEE802.3U compliant
Connector	External RJ45 connector with LED on rear I/O panel

Audio Interface	
Chipset	Intel ICH4 with REALTEK ALC655 AC97 3D audio codec
Interface	5.1 channel 3D audio with front (R/L), rear (R/L), center and bass Optical Fiber digital audio encoding signal output
Connector	External three phone jack for 5.1 channel audio on front panel External Amplified Speaker output jack on rear panel External SPDIF connector on rear panel

Solid State Disk Interface	
Flash Type	Compact Flash Type-I/II for Compact Flash Card or IBM Micro Drive
Capacity	Up to 1GB flash memory

| Expansion Interface	
Slim PCI Slot	One slim type PCI slot supports up to 2 bus master PCI 32-bit, 33MHz
Mini-PCI	One Mini-PCI socket with 32-bit, 33MHz for **LV-671MPCMB**
Mini-AGP	One Mini-AGP socket with 4x AGP bus for **LV-671MACMB**

Power and Environment	
Power Requirement	External 19V/12V (auto switching) DC Adapter connector
Input Voltage Range	11V ~ 13V for 12V power supply 16V ~ 20V for 19V power supply
Input Current	12V/60W (with one 5.25" CDROM and 3.5" HDD) 19V/60W (with one 5.25" CDROM and 3.5" HDD)
Dimension	180 (L) x 178 (H) x 87 (D) mm
Temperature	Operating within 0 ~ 60°C (32 ~ 140°F) Storage within -20 ~ 85°C (-4 ~ 185°F)

Ordering Code	
CMB-671MA	LV-671MACMB inside with Mini-AGP onboard
CMB-671MP	LV-671MPCMB inside with Mini-PCI onboard

Hardware Installation:

Motherboard Layout
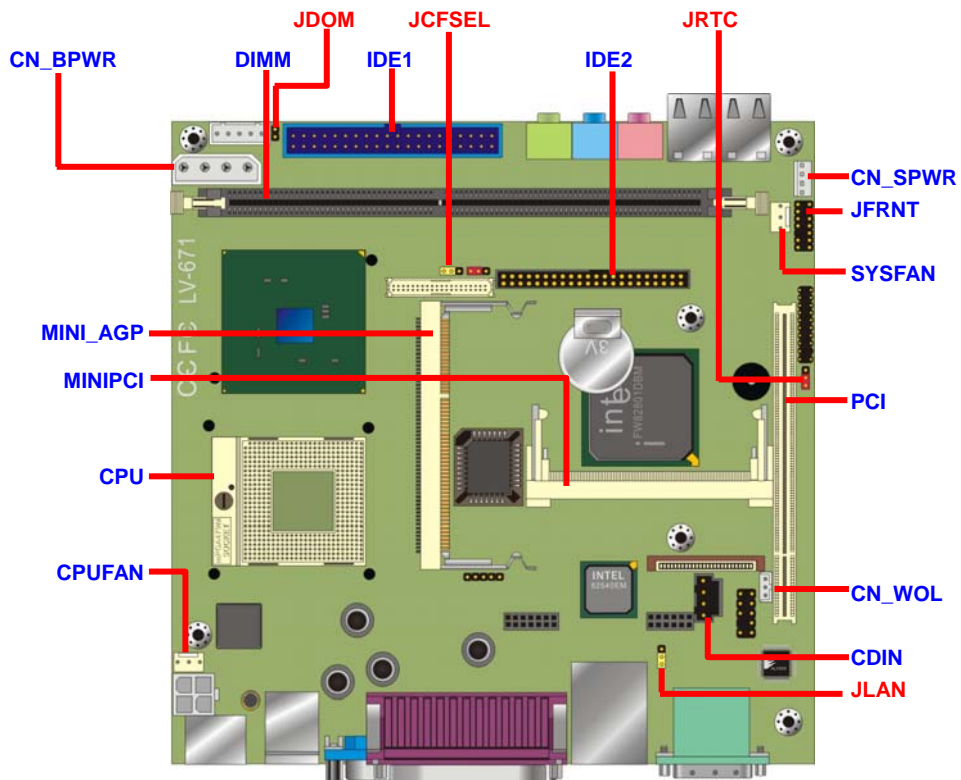
Components showed for available on CMB-671 only

━━━━ **For Connector**　　━━━━ **For Jumper**

Connector Reference:

Connector	Function	Remark
CPU	MicroPGA479 CPU Socket	Standard
DIMM	184-pin DIMM Socket	Standard
IDE1	40-pin Primary IDE Port	Standard
IDE2	44-pin Secondary IDE Port	Standard
CN_BPWR	4-pin 5V&12V output connector	Standard
JFRNT	14-pin Switch and Indicator Connector	Standard
CPUFAN	3-pin +12V CPU Fan Connector	Standard
SYSFAN	3-pin +12V System Fan Connector	Standard
CDIN	4-pin CD-in Interface	Standard
CN_WOL	3-pin Wake-On-LAN Interface	Standard
MINI_AGP	Mini-AGP socket	LV-671MA
MINIPCI	Mini-PCI socket	LV-671MP
PCI	Slim type PCI slot	Standard

Jumper Reference:

Jumper	Function	
JRTC	COMS Operate / Clear Setting	
JLAN	LAN1 Enable/Disable	
JCFSEL	Compact Flash Address Setting	
JDOM	IDE1 5V Voltage Enable/Disable	

JRTC	Mode
1-2	Clear CMOS
2-3	Normal Operation

Default setting

JDOM	Mode
ON	IDE1 pin-20 5V power supply enable
OFF	No 5V power supply on IDE1 pin-20

Default setting

JCFSEL	Mode
1-2	Master
2-3	Slave

Default setting

JRTC	Mode
1-2	Enable Onboard LAN controller
2-3	Disable Onboard LAN controller

Default setting

I/O panel:

Front:

Reset Button

CD-ROM

Power Button

IDE LED

Power LED

USB

MIC LINE-IN PHONE   CF

Rear:

PCI

S/PDIF

Printer Port

RJ45

Mouse

COM2

DC-IN

COM1

Keyboard

VGA   SPEAKER   USB   PCMCIA
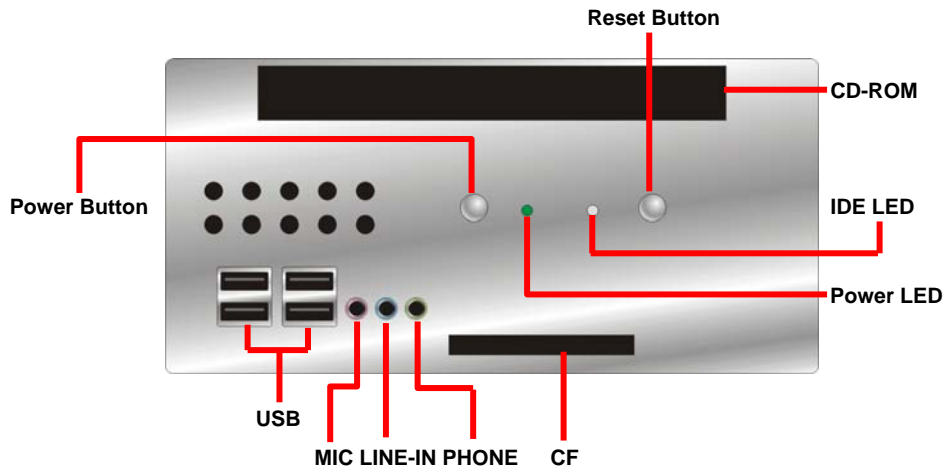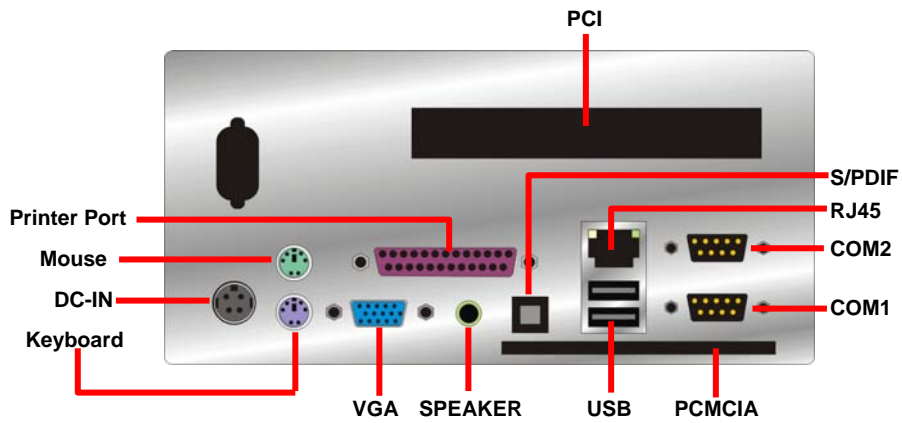
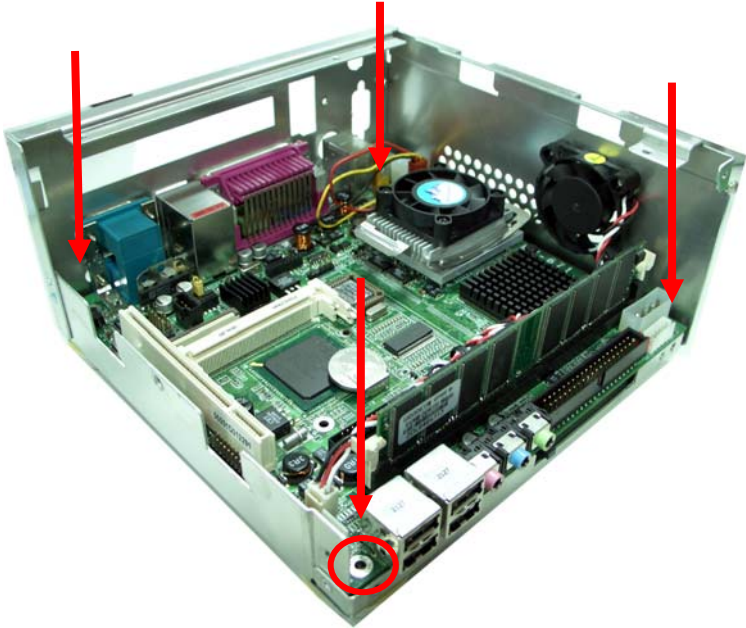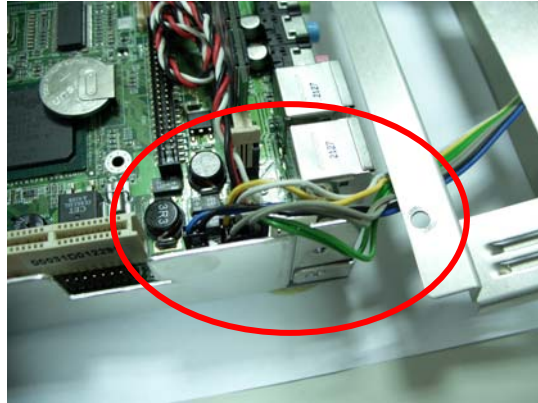## Chassis Setup Sequence:

1. **Install the LV-671 motherboard on the chassis well and screw up.**

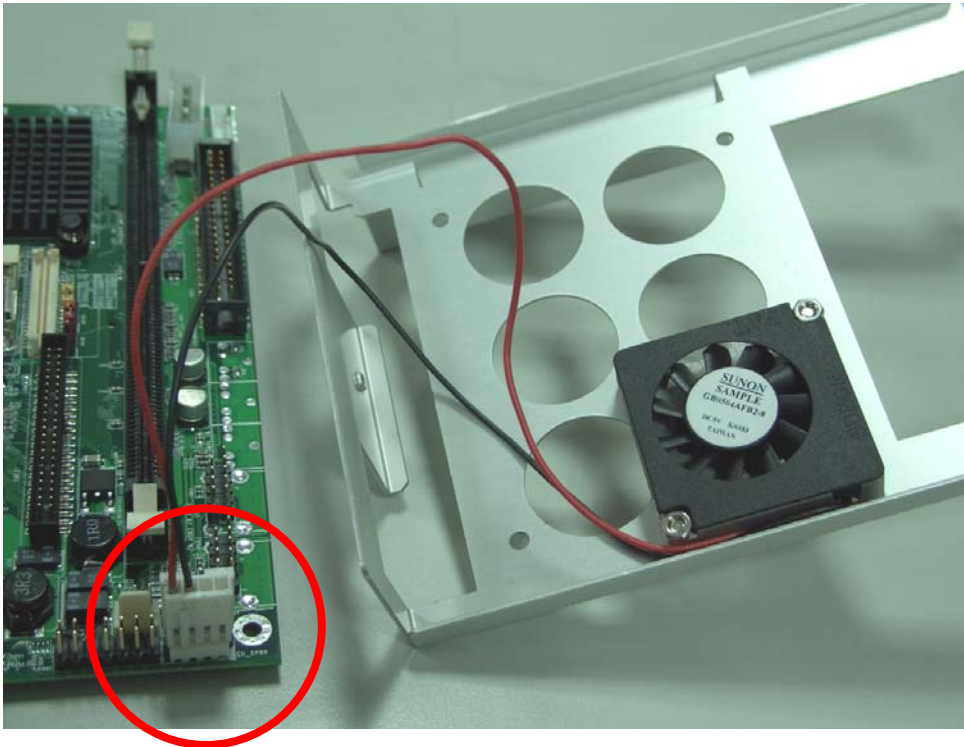2. **Lock the 2.5 inches HDD on the drive bay**

3. **Before installing the HDD drive bay on the chassis, connect the front panel cable on JFRNT of LV-671.**

4. **Install the HDD drive bay on the chassis.**

5. Check the fan below the HDD drive bay, and connect the cable on CN_SPWR.

Notice: The cooler only comes with the CMB-671MA, if you could not find the cooler when you unpack the chassis, please contact with your local distributor.

If you want to apply the MA-ATI graphic card on the system, please remove the cooler before installing on the board.

6. Install the CD-ROM bay with chassis shell on.

7.   Screw up the front plastic panel.

Contact Information

Any advice or comment about our products and service, or anything we can help you please don't hesitate to contact with us. We will do our best to support you for your products, projects and business

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