

MB-668

LPX Board Socket 370 Pentium III
with LCD, LAN, Audio, 4 COMs & SSD

Notice:

The guide is designed for experienced users to setup the system within the shortest time. For detailed information, please always refer to the electronic user's manual.

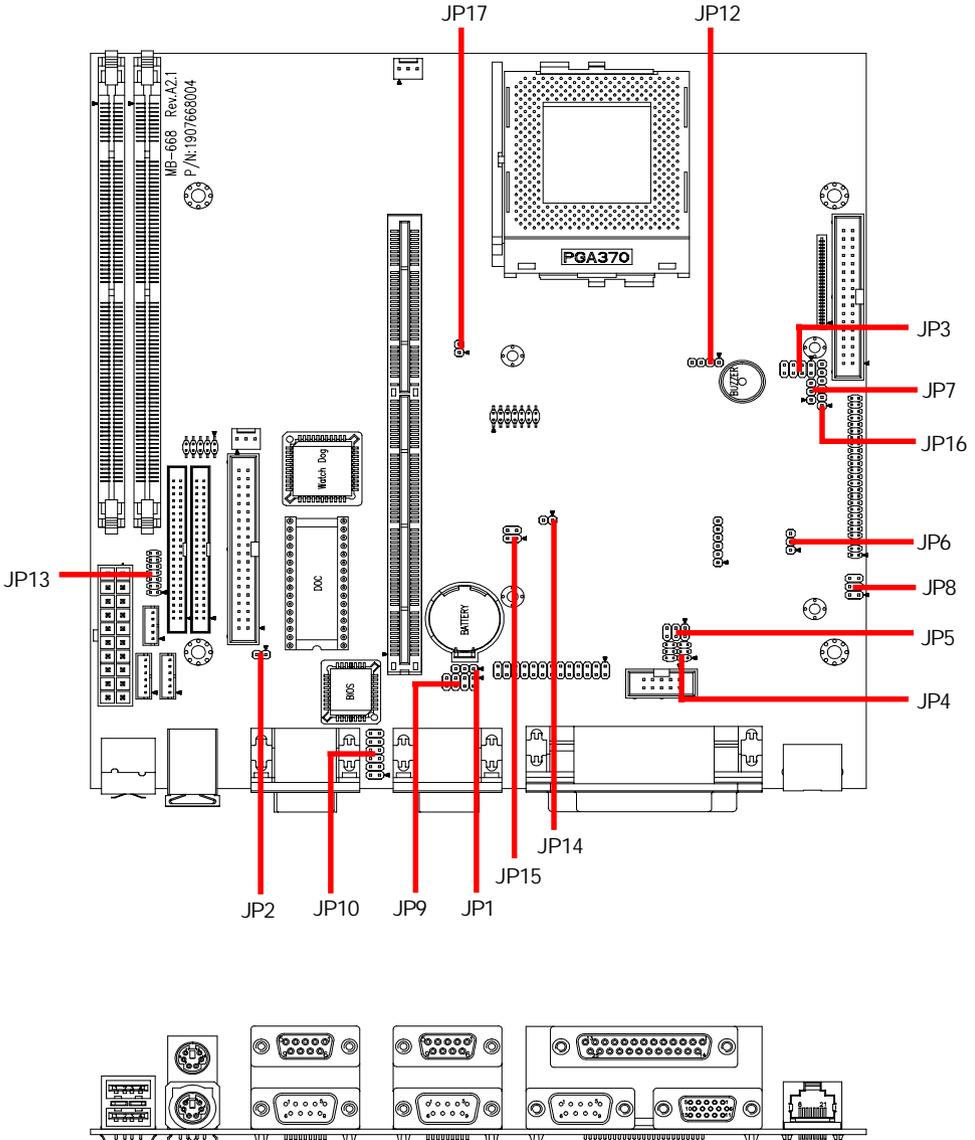
Safety Precautions

Warning!  Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

Caution!  Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

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Location of Jumpers



Quick Installation Guide

List of Jumpers

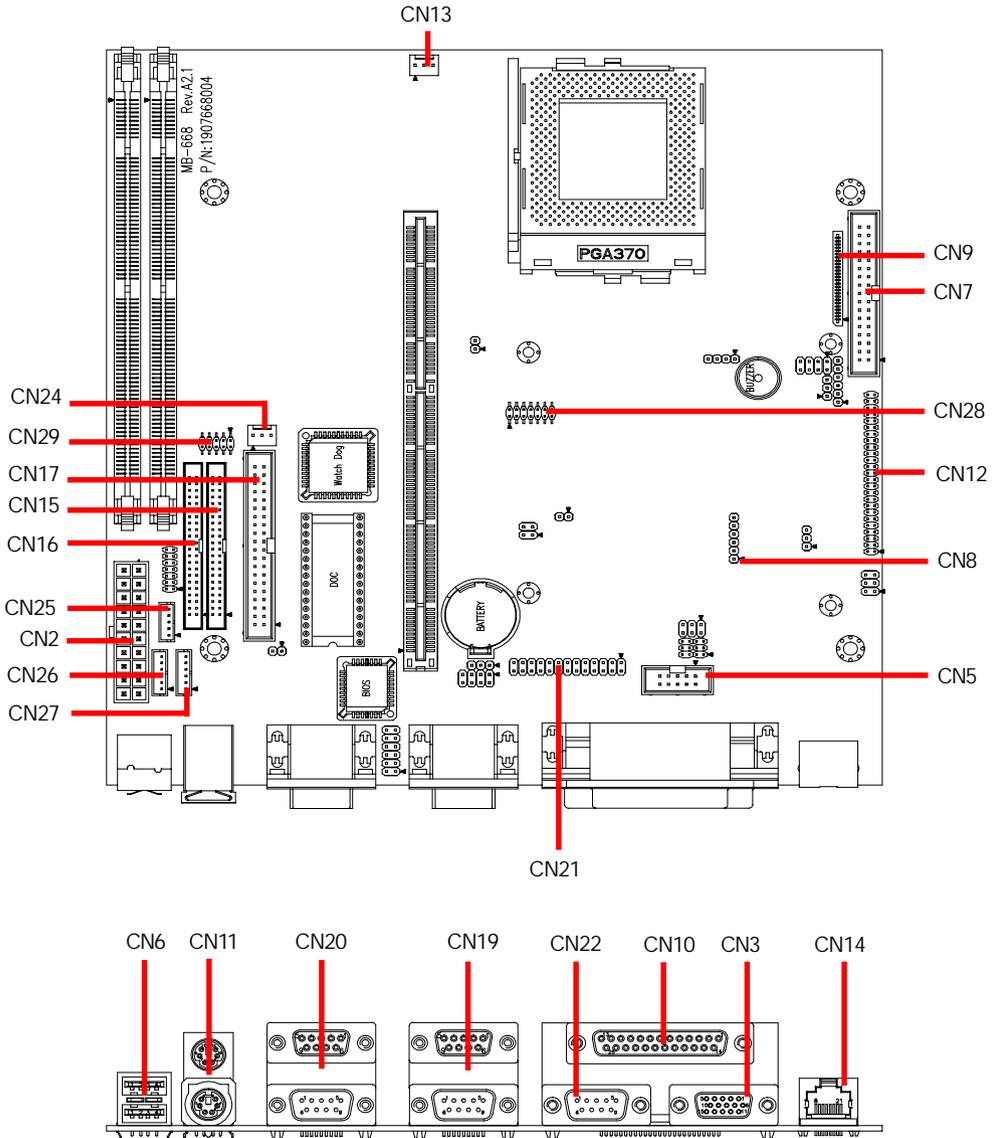
Jumpers allow users to manually customize system configurations to their suitable application needs.

The following chart consist the list of each jumper function:

Jumpers	
Label	Function
JP1	Clear CMOS Selection
JP2	Power ON Switch
JP3	Panel Type Selection
JP4,JP5	COM2 RS-232/422/485 Selection
JP6	LCD Panel Voltage Setting
JP7	LCD Clock Signal Selection
JP8	Ethernet Tx/Rx/Link LED Connector
JP9	COM3/COM4 RS-232/422/485 Selection
JP10	COM3/COM2 RI Function/Voltage Selection
JP12	Speaker (external) / Buzzer
JP13	System Status LED Pin Header
JP14	Power Reset Connector
JP15	DiskOnChip (DOC) Address Selection
JP16	IR Touchscreen Power Pin Header
JP17	100/66 Mhz Frequency Select

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Location of Connectors



Quick Installation Guide

List of Connectors

Connectors on board access link to external devices such as hard disk drives, a keyboard, or floppy drives.

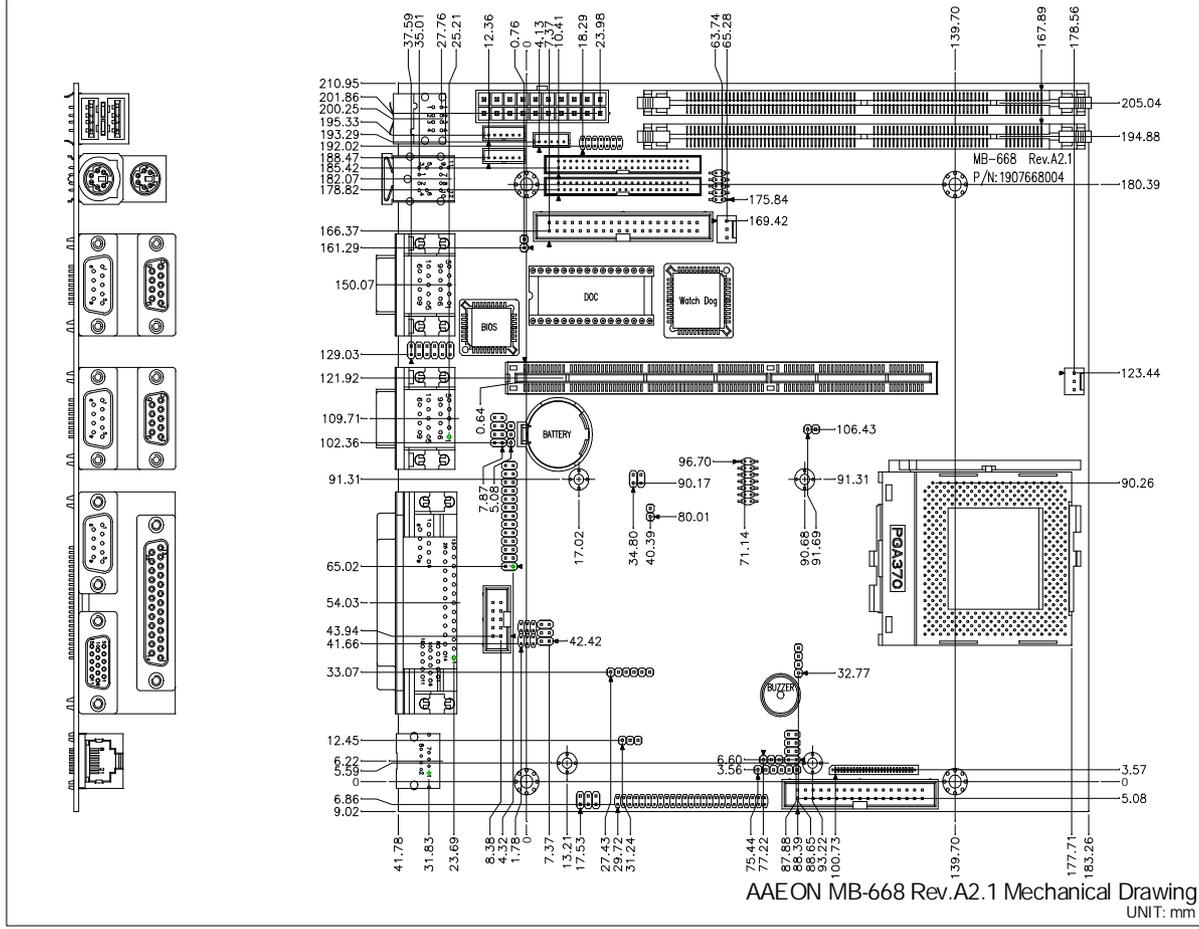
The following consist the list of each connector function:

Connectors

Label	Function
CN2	ATX Power Connector
CN10, CN21	Parallel Port 1 and 2 Connectors
CN5, CN19, CN20	Serial Port COM2, COM3 and COM4 Conn.
CN6, CN26	USB Connector
CN7	Floppy Drive Connector
CN8	IrDA Connector
CN9	(FPC) Floppy Drive Connector
CN3, CN12	Display Connectors (CRT and LCD)
CN11, CN27	Keyboard and Mouse Connector
CN13	CPU Fan Power Connector
CN14	RJ-45 Ethernet Connector
CN15	IDE LS-120 Connector
CN16	Primary IDE Hard Drive Connector
CN17	Secondary IDE Hard Drive Connector
CN22	Serial Port COM 1 Connector
CN24	System Fan Power Connector
CN25	LCD Backlight Power Connector
CN28	Audio Connector
CN29	Digital I/O Connector

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Mechanical Drawing

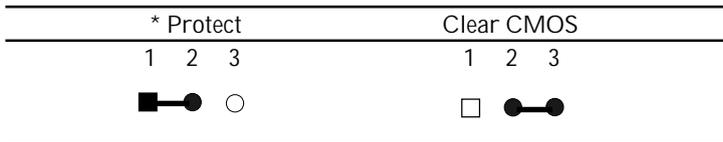


AAEON MB-668 Rev.A2.1 Mechanical Drawing
UNIT: mm

Quick Installation Guide

Clear CMOS Selection (JP1)

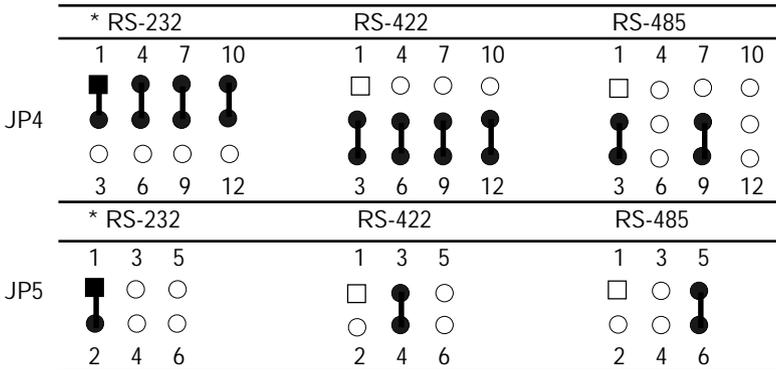
Safety precautions in setting up clear CMOS must be taken, always place jumper on protect mode. In clearing CMOS, place jumper for just a second (follow clear CMOS illustration) then, immediately return jumper to protect mode.



* Default

COM2 RS-232/422/485 Selection (JP4,JP5)

JP4 and JP5 provides the user easy accessibility in manually setting RS-232/422/485 in COM2 configuration. Just follow the illustration for both JP4 and JP5 shown below:



* Default

LCD Panel Voltage Setting (JP6)

The LCD panel driving voltage is set by using JP6 jumper settings illustrated as follows:

5V			* 3.3V		
1	2	3	1	2	3
					

* Default

LCD Clock Signal Selection (JP7)

The LCD clock control signal is set by using JP7 jumper settings illustrated as follows:

AShift Clock			* Shift Clock		
1	2	3	1	2	3
					

* Default

Ethernet Tx/Rx/Link LED Connector (JP8)

With ethernet Tx/Rx/Link LED indicator, the ethernet status can be trace up through LED indicator readings. The pin definitions are listed as follows:

Pin	Signal	Pin	Signal
1	Rx-LED	2	Vcc
3	Link LED	4	Vcc
5	Tx-LED	6	Vcc

Quick Installation Guide

COM3/COM4 RS-232/422/485 Selection (JP9)

By manually setting JP9, configurations for COM3/COM4 can be set corresponding with RS-232/422/485 selection. Please see illustration as follows:

* RS-232				RS-422				RS-485			
1	3	5	7	1	3	5	7	1	3	5	7
<input type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
2	4	6	8	2	4	6	8	2	4	6	8

* Default

COM3/COM2 RI Function/Voltage Selection (JP10)

RI function or voltage selection configurations for COM3/COM2 can be set manually through jumper JP10. Jumper settings are illustrated as follows:

	* RI Function			+5Vout			+12Vout		
	1	3	5	1	3	5	1	3	5
COM3	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	2	4	6	2	4	6	2	4	6
	7	9	11	7	9	11	7	9	11
COM2	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input type="radio"/>	<input checked="" type="radio"/>
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	8	10	12	8	10	12	8	10	12

* Default

Speaker/Buzzer (JP12)

This onboard jumper provides users easy manual settings for on board buzzer and external speaker. By just following the illustration of the settings below:



* Default

System Status LED Pin Header (JP13)

LED indicator for system status, it serves as an early warning indicator and as well as a quick troubleshooting indicator. Just follow the pin definition for each 7 LEDs illustrated below:

Pin	Signal	Pin	Signal
1	Power_ON LED	2	Vcc
3	CPU_fan LED	4	Vcc
5	System_fan LED	6	Vcc
7	HDD_access LED	8	Vcc
9	Low_temperature LED	10	Vcc
11	High_temperature LED	12	Vcc
13	LAN_access LED	14	Vcc

Quick Installation Guide

DiskOnChip (DOC) Address Selection (JP15)

The DiskOnChip 2000 family of products provides a single chip solid-state flash disk in a standard 32-pin DIP package. The DiskOnChip 2000 is a solid-state disk with no moving parts, resulting in a significant reduction in power consumption and an increase in reliability. The DiskOnChip is a small plug and play Flash disk. It is easy to use. And it saves integration overhead.

The DiskOnChip 2000 family of products is available in capacities ranging from 16MB up to 288MB, unformatted. In order to manage the disk, the DiskOnChip 2000 includes the TrueFFS, M-Systems Flash File System proprietary software. The DiskOnChip 2000 package is pin-to-pin compatible with a standard 32-pin EPROM device.

D400		D800		DC00		* Disable	
1	3	1	3	1	3	1	3
<input type="checkbox"/>	<input type="radio"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input checked="" type="checkbox"/>	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
2	4	2	4	2	4	2	4

* Default

IR Touch Screen Power Pin Header (JP16)

This plug in jumper connection provides quick installation for the optional use of IR touch screen on display panels. Just refer to the pin definitions below:

Pin	Signal	Pin	Signal
1	Vcc	2	GND
3	N/C	4	N/C
5	N/C	6	N/C

100/66 Mhz Frequency Selection (JP17)

Provide the users to manually select the operating frequency with the use of jumper JP17. Illustrated setting as follows:

* 66 Mhz Frequency	100 Mhz Frequency
1 2 	1 2 <input type="checkbox"/> <input type="radio"/>

* Default

Quick Installation Guide

ATX Power Connector (CN2)

For ease and reliability, a standard 20-pin ATX power supply connector is onboard. Which also provide positive plugging through it's guided and locking mechanism. Pin definitions as follows:

Pin	Signal	Pin	Signal
1	N/C	11	N/C
2	N/C	12	-12V
3	GND	13	GND
4	+5V	14	PON
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	N/C	18	-5V
9	5VSB	19	+5V
10	+12V	20	+5V

Parallel Port 1 Connector (CN10) and Parallel Port 2 Connector (CN21)

The mainboard is designed to support two parallel ports. Port 1 connector (CN10) also designated as LPT1 is a standard 25-pin D-sub connector specially prepared for external interface. And port 2 connector (CN21) designated as LPT2 in the form of a 13x2 pin header connector for embedded connection purposes. Both can be enabled and disabled in the BIOS system setup. For example if LPT1 is disabled, LPT2 or LPT3 is enabled. And if LPT2 is disabled, LPT1 or LPT3 is enabled. The pin definitions for both CN10 and CN21 are listed as follows: (Please turn to next page).

Parallel Port 1 Connector (CN10), 25-pin D-sub

Pin	Signal	Pin	Signal
1	/STB	2	DO
3	D1	4	D2
5	D3	6	D4
7	D5	8	D6
9	D7	10	/ACK
11	BUST	12	PE
13	/SLCT	14	/AUTOFD
15	ERR	16	/INIT
17	/SLCTINI	18	GND
19	GND	20	GND
21	GND	22	GND
23	GND	24	GND
25	GND	26	GND

Parallel Port 2 Connector (CN21), 13x2 pin header

Pin	Signal	Pin	Signal
1	/STB	2	/AUTOFD
3	DO	4	ERR
5	D1	6	/INIT
7	D2	8	/SLCTINI
9	D3	10	GND
11	D4	12	GND
13	D5	14	GND
15	D6	16	GND
17	D7	18	GND
19	/ACK	20	GND
21	BUST	22	GND
23	PE	24	GND
25	SLCT	26	N/C

Quick Installation Guide

Serial Port COM2, COM3 and COM4 Connectors (CN5), (CN19) and (CN20)

The availability of this interface allows connection of serial devices such as mouse, printer, etc.. Pin definitions as follows:

COM2 RS-232/422/485 (CN5)

Pin	Signal	Pin	Signal
1	CM2-1	6	NDSR2
2	CM2-2	7	NRTS2
3	CM2-3	8	NCTS2
4	CM2-4	9	INRI2
5	GND	10	N/C

COM3 RS-232/422/485 (CN19)

Pin	Signal	Pin	Signal
1	DCDA	10	ATXD+
2	RXDA	11	ATXD-
3	TXDA	12	ARXD+
4	DTRA	13	ARXD-
5	GND	14	GND
6	DSRA	15	N/C
7	RTSA	16	N/C
8	CTSA	17	N/C
9	RIA	18	GND

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COM4 RS-232/422/485 (CN20)

Pin	Signal	Pin	Signal
1	DCDB	10	BTXD+
2	RXDB	11	BTXD-
3	TXDB	12	BRXD+
4	DTRB	13	BRXD-
5	GND	14	GND
6	DSRB	15	N/C
7	RTSB	16	N/C
8	CTSB	17	N/C
9	RIB	18	GND

USB Connector (CN6) and (CN26)

MB-668 is equipped with a dual port USB onboard connector. It acquires the new generation of plug and play (Hot Plugging) feature, for both low speed and high speed devices. It could also be expanded up to 127 connections through USB hub. CN26 can be disabled in the BIOS system setup. Refer pin definitions as follows:

USB Connector (CN6)

Pin	Signal	Pin	Signal
1	Vcc	5	Vcc
2	USBD1-	6	USBD0-
3	USBD1+	7	USBD0+
4	GND	8	GND

USB Connector (CN26), Pin header

Pin	Signal	Pin	Signal
1	Vcc	4	GND
2	USBD1-	5	USBD0+
3	USBD1+	6	USBD0-

Quick Installation Guide

Floppy drive connector (CN7), FPC (CN9)

You can attach up to two floppy drives to the mainboard controller. You can use any combination of 5¼" (360 KB and 1.2 MB) and/or 3½" (720 KB, 1.44 MB, and 2.88 MB) drives.

A 34-pin daisy chain drive connector cable for (CN7) is required for a dual-drive system. On one end of the cable is a 34-pin flat cable connector. On the other end are two sets of floppy disk drive connectors. Each set consists of a 34-pin flat-cable connector (usually used for 3½" drives) and a printed-circuit board connector (usually used for 5¼" drives). Plus an additional Flexible Printed Circuit (FPC) connector (CN9), extra drive means extra memory for your system. An ideal way for cost effective design.

Wire number 1 on the cable is normally red or blue, and the other wires are usually gray.

Connecting the floppy drive

1. Plug the 34-pin flat-cable connector into CN7. Make sure that the red or blue wire corresponds to pin 1 on the connector. No worries for CN9 FPC connector, it's guided design for error free connection.
2. Attach the appropriate connector on the other end of the cable to the floppy drive(s). You can use only one connector in the set. The set on the end (after the twist in the cable) connects to the A: drive. The set in the middle connects to the B: drive.
3. If you are connecting a 5¼" floppy drive, line up the slot in the printed circuit board with the blocked-off part of the cable connector.

If you are connecting a 3½" floppy drive, you may have trouble determining which pin is pin number 1. Look for a number printed on the circuit board indicating pin number 1. Also, the connector on the floppy drive connector may have a slot. When the slot is up, pin number 1 should be on the right. Check the documentation that came with the drive for more information. If you desire, connect the B: drive to the connectors in the middle of the cable as described above.

Please refer to the pin definitions on the next page.

Floppy Drive Connector (CN7)

Pin	Signal	Pin	Signal
1	GND	2	DENSITY SELECT
3	GND	4	N/C
5	GND	6	DRIVE TYPE
7	GND	8	INDEX
9	GND	10	MOTOR 0
11	GND	12	DRIVE SELECT 1
13	GND	14	DRIVE SELECT 2
15	GND	16	MOTOR 1
17	GND	18	DIRECTION
19	GND	20	STEP
21	GND	22	WRITE DATA
23	GND	24	WRITE GATE
25	GND	26	TRACK 0
27	GND	28	WRITE PROTECT
29	GND	30	READ DATA
31	GND	32	HEAD SELECT
33	GND	34	DISK CHANGE

Note: Please refer to the next page for (CN9) pin definitions.

IrDA Connector (CN8)

How to install infrared module:

- 1.) Plug infrared module into IrDA connector. Caution must be taken with the connector's orientation before plugging into IrDA connector.
- 2.) Enable infrared function in the BIOS system setup.

IrDA connector pin definitions:

Pin	Signal	Pin	Signal
1	Vcc	4	GND
2	FIrRx	5	IrTx
3	IrRx	6	CIrRx

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(FPC) Floppy Drive Connector (CN9)

(FPC) Floppy Drive Connector (CN9)			
Pin	Signal	Pin	Signal
1	Vcc	2	INDEX
3	Vcc	4	DRIVE SELECT 2
5	Vcc	6	DISK CHANGE
7	N/C	8	Vcc
9	DENSITY SELECT	10	MOTOR 0
11	N/C	12	DIRECTION
13	Vcc	14	STEP
15	GND	16	WRITE DATA
17	GND	18	WRITE GATE
19	GND	20	TRACK 0
21	GND	22	WRITE PROTECT
23	GND	24	READ DATA
25	GND	26	HEAD SELECT

Display Connectors (CN3) and (CN12)

The MB-668's PCI SVGA interface can drive conventional CRT displays and is capable of driving a wide range of flat panel displays, including electroluminescent (EL), gas plasma, passive LCD, and active LCD displays. The board has two connectors to support these displays, one for standard CRT VGA monitors and one for flat panel displays. (See pin definitions, next page).

VGA Display Connector (CN3)

A standard conventional D-sub connector is equipped to interface with conventional CRT displays. Refer to pin definitions as follows:

Pin	Signal
1	RED
2	GREEN
3	BLUE
4	N/C
5	Chassis GND
6	Chassis GND
7	Chassis GND
8	Chassis GND
9	Vcc
10	Chassis GND
11	N/C
12	DDDA
13	H-SYNC
14	V-SYNC
15	DDCK

Quick Installation Guide

LCD display connector (CN12)

CN12 is a 50-pin, dual-in-line header used for flat panel displays.

When the MB-668's power is applied, the control signal is low until just after the relevant flat panel signals are present.

Configuration of the VGA interface is done completely via the software utility. You do not have to set any jumpers.

Pin	Signal	Pin	Signal
1	+12 V _{DC}	2	+12 V _{DC}
3	GND	4	GND
5	+5 V _{DC}	6	+5 V _{DC}
7	ENAVEE	8	GND
9	P0	10	P1
11	P2	12	P3
13	P4	14	P5
15	P6	16	P7
17	P8	18	P9
19	P10	20	P11
21	P12	22	P13
23	P14	24	P15
25	P16	26	P17
27	P18	28	P19
29	P20	30	P21
31	P22	32	P23
33	P24	34	P25
35	SHF CLK	36	FLM (V SYS)
37	M	38	LP (H SYS)
39	GND	40	ENABKL
41	P26	42	P27
43	P28	44	P29
45	P30	46	P31
47	P32	48	P33
49	P34	50	P35

Keyboard and Mouse Connector (CN11) and (CN27)

The MB-668 provides a keyboard connector which supports both a keyboard and a PS/2 style mouse. But in most cases, especially in embedded applications, a keyboard is not used. The standard PC/AT BIOS will report an error or fail during power-on-self-test (POST) after a reset if the keyboard is not present. The mainboard BIOS Advanced setup menu allows you to select "Present" or "Absent" under the "System Keyboard" section. This allows no-keyboard operation in embedded system applications without the system halting under POST (power-on-self-test). Take note that both can't be used simultaneously. Please refer to the pin definitions of both CN11 and CN27 listed below:

Keyboard and Mouse Connector (CN11), Dual mini-din connector			
Pin	Signal	Pin	Signal
1	KB DATA	7	MS DATA
2	MS DATA	8	N/C
3	GND	9	GND
4	Vcc	10	Vcc
5	KB CLOCK	11	MS CLOCK
6	MS CLOCK	12	N/C

Keyboard and Mouse Connector (CN27), 6-pin connector			
Pin	Signal	Pin	Signal
1	KB DATA	4	MS DATA
2	MS DATA	5	N/C
3	GND	6	GND

Quick Installation Guide

CPU and System Fan Power Connector (CN13) and (CN24)

Two 3-pin plug in and error free onboard connectors are located accessibly for trouble-free connection and disconnection. For CPU fan it is labeled CN13 and CN24 for system fan. Both pin definitions are listed below:

CPU Fan Power Connector (CN13)	
Pin	Signal
1	GND
2	+12V
3	fan speed sensor

System Fan Power Connector (CN24)	
Pin	Signal
1	GND
2	+12V
3	fan speed sensor

RJ-45 Ethernet Connector (CN14)

MB-668 is outfitted with a standard RJ-45 LAN connector. With support from Realtek RTL8139C chipset using either 10Mbps or 100Mbps are possible through it's N-way auto-negotiation featured operation. Refer to the pin definitions on the next page.

RJ-45 Ethernet Connector (CN14)			
Pin	Signal	Pin	Signal
1	TX+	5	N/C
2	TX-	6	RX-
3	RX+	7	N/C
4	N/C	8	N/C

IDE Hard Drive Connectors

IDE LS-120 Connector (CN15)

Primary IDE Hard Drive Connector (CN16)

Secondary IDE Hard Drive Connector (CN17)

You can attach up to three Enhanced Integrated Device Electronics hard disk drives to the mainboard's internal controller. The mainboard's IDE controller uses a PCI local-bus interface. This advance interface supports faster data transfer and allows the IDE hard drive to exceed 528 MB.

Connecting the hard drive

Connecting drives, their done in a daisy-chain fashion and requires one of the three cables, depending on the drive size. 1.8" and 2.5" drives need one 44-pin to two 44-pin flat cable connector. 3.5" drives use one 44-pin to two 40-pin connector.

Wire number 1 on the cable is normally red or blue, and the other wires are usually gray.

1. Connect one end of the cable to CN15, CN16 or CN17. Make sure that the red (or blue) wire corresponds to pin 1 on the connector, which is marked and connectors are slotted.
2. Plug the other end of the cable to the Enhanced IDE hard drive, with pin 1 on the cable corresponding to pin 1 on the hard drives. (see your hard drive's documentation for the location of the connector).

Connect a second drive as described above.

continue to the next page

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Unlike floppy drives, IDE hard drives can be connected to either end of the cable. The pin definitions for this section are listed below:

(Both CN15 and CN16 share the same pin definitions.)

IDE LS-120 Connector (CN15) and Primary HDD Connector (CN16)			
Pin	Signal	Pin	Signal
1	IDE RESET	2	GND
3	DATA 7	4	DATA 8
5	DATA 6	6	DATA 9
7	DATA 5	8	DATA 10
9	DATA 4	10	DATA 11
11	DATA 3	12	DATA 12
13	DATA 2	14	DATA 13
15	DATA 1	16	DATA 14
17	DATA 0	18	DATA 15
19	SIGNAL GND	20	N/C
21	N/C	22	GND
23	IO WRITE	24	GND
25	IO READ	26	GND
27	IO CHANNEL READY	28	ALE
29	N/C	30	GND
31	IRQ14	32	IOCS16
33	ADDR 1	34	N/C
35	ADDR 0	36	ADDR 2
37	HARD DISK SELECT 0	38	HARD DISK SELECT 1
39	IDE ACTIVE	40	MGND
41	Vcc	42	MVcc
43	GND	44	N/C

Secondary IDE Hard Drive Connector (CN17)

Pin	Signal	Pin	Signal
1	IDE RESET	2	GND
3	DATA 7	4	DATA 8
5	DATA 6	6	DATA 9
7	DATA 5	8	DATA 10
9	DATA 4	10	DATA 11
11	DATA 3	12	DATA 12
13	DATA 2	14	DATA 13
15	DATA 1	16	DATA 14
17	DATA 0	18	DATA 15
19	SIGNAL GND	20	N/C
21	N/C	22	GND
23	IO WRITE	24	GND
25	IO READ	26	GND
27	IO CHANNEL READY	28	ALE
29	N/C	30	GND
31	IRQ14	32	IOCS16
33	ADDR 1	34	N/C
35	ADDR 0	36	ADDR 2
37	HARD DISK SELECT 0	38	HARD DISK SELECT 1
39	IDE ACTIVE	40	MGND

Quick Installation Guide

Serial Port COM1 (CN22)

This port is also readily available for quick connect and disconnect of serial devices like mouse, printer and etc.. Pin definitions are listed as follows:

Serial Port COM1 RS-232 (CN22)			
Pin	Signal	Pin	Signal
1	NRLSD1	6	NDSR1
2	NRXD1	7	NRTS1
3	NTXD1	8	NCTS1
4	NDTR1	9	NR11
5	GND	10	GND

LCD Backlight Power Connector (CN25)

CN25 enables power transmission when connected from the main-board to the LCD panel for backlight lighting. Refer to the pin definitions below:

Pin	Signal
1	+12V ENB
2	GND
3	N/C
4	N/C
5	+5V ENB

Audio Connector (CN28)

MB-668 comes with an integrated 14-pin flat audio cable connector. Which provides major audio signal connections with the main-board. Below are the pin definitions for (CN28):

Pin	Signal	Pin	Signal
1	MIC_IN	2	MIC_Vcc
3	GND	4	CD_GND
5	LINE_IN Left	6	CD_Left
7	LINE_IN Right	8	CD_GND
9	GND1	10	CD_Right
11	Audio OUT Left	12	Audio OUT Right
13	GND	14	GND

Digital I/O Connector (CN29)

MB-668 offers digital I/O functions connector for easy access and link with digital devices. (Input 4031: GPI15 [bit7]; Input 4032: GPI17 [bit1], GPI18 [bit2], GPI19 [bit3]; Output 4036: GPO17 [bit1], GPO 18 [bit2], GPO19 [bit3], GPO20 [bit4]) The pin definitions are illustrated below:

Pin	Signal	Pin	Signal
1	DIO_IN1	2	DIO_IN2
3	DIO_IN3	4	DIO_IN4
5	DIO_OUT1	6	DIO_OUT2
7	DIO_OUT3	8	DIO_OUT4
9	Vcc	10	GND

Quick Installation Guide

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