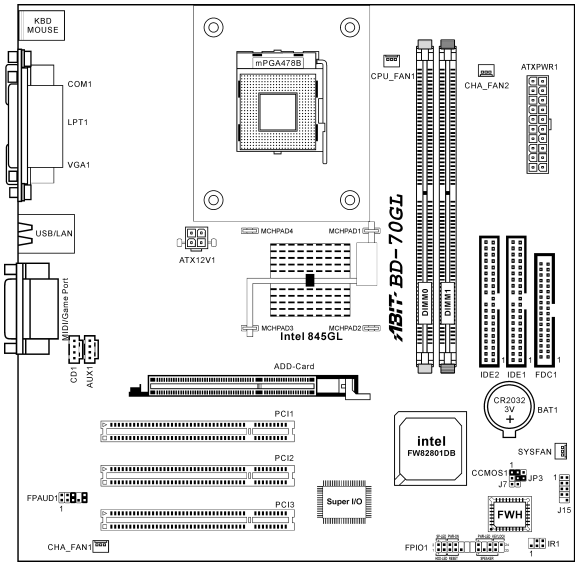
BD-70GL

Brief Installation Guide



4200-0299-02 **Rev. 1.00**

Features & Specifications

CPU

- Supports Intel Pentium® 4 socket 478 processor
- Supports 400MHz System Data Bus

Chipset

- Intel 82845GL (MCH) + 82801DB (ICH4) chipset
- Integrated graphics
- Supports Hi-Speed Universal Serial Bus (USB v2.0)
- Supports Dual Ultra ATA 100/66/33 channels up to 4 devices

Memory

- Supports two 184-pin socket PC1600 and PC2100 DDR DRAM modules
- Supports up to 2GB MAX

Audio

- ALC202A 2-channel Audio CODEC onboard

System BIOS

- Award Plug and Play BIOS supports APM and ACPI
- Write-Protect Anti-Virus function by AWARD BIOS

Multi I/O Functions

- 2 channels bus master IDE ports support Ultra DMA 33/66/100 (up to 4 devices)
- 1 floppy port (up to 2.88MB)
- 1 onboard USB2.0 header for two extra USB channels
- 1 built-in IrDA TX/RX header
- PS/2 keyboard and PS/2 mouse connectors
- 2 port USB2.0 + 1 port RJ-45 LAN connector
- 1 parallel port (EPP/ECP) connector
- 1 serial Port connector
- 1 standard 15 pin VGA connector
- Audio connector (Line-in, Line-out, Mic-in, and Game Port)

Local Area Network

- Onboard RTL8100BL single chip Ethernet controller with power management
- 10/100Mb Operation
- Supports ACPI & Wake on LAN
- Fully compliant with PCI 2.2

Miscellaneous

- Support STR (Suspend to RAM)
- Micro ATX form factor
- 3 PCI slots
- Hardware Monitoring – Including Fan speed, Voltages, CPU and System temperature and one thermal header for other devices temperature monitoring
- Keyboard and Mouse Power On
- Board size: 245 x 245mm

Note: *All brand names and trademarks are the property of their respective owners.*

Connectors, Headers, and Jumper

Note: *Always power off the computer and unplug the AC power cord before adding or removing any peripheral or component. Failing to do so may cause severe damage to your motherboard and/or peripherals. Plug in the AC power cord only after you have carefully checked everything.*

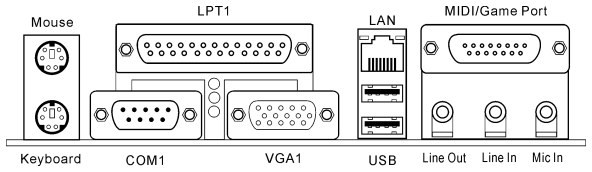
ADD-Card Slot:

- This ADD-Card slot supports for DVO (Direct Video Out) and TV-Out add-on card.

ATXPWR1/ATX12V1 Connector:

- Connects to ATX power supply. (The ATX power supply unit must meet ATX2.03 specification with Standard ATX/ATX12v/AUX ATX power connectors.)

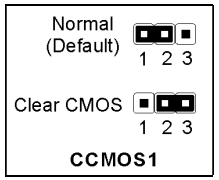
Back Panel:



- **Mouse:** Connects to a PS/2 Mouse.
- **Keyboard:** Connects to a PS/2 Keyboard.
- **LPT1:** Usually connects to printer, or you can connect to other devices that support this communication protocol, like an EPP/ECP scanner, etc.
- **COM1:** Connects to external modem, serial mouse or other devices that supports this communication protocol.
- **VGA1:** Connects to VGA signal input of monitor.
- **LAN:** Connects to Local Area Network.
- **USB:** These two ports connect to USB devices. Two additional USB ports are also available through J15 header.
- **MIDI/Game Port**: Connects to joystick, game pad, or other simulation hardware device.
- **Line Out:** Connects to external stereo speakers.
- **Line In:** Connects to the line out of external audio sources.
- **Mic:** Connects to a microphone.

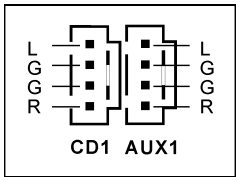
CCMOS1 Jumper:

- This header uses a jumper to clear the CMOS memory. Short pin 2 and pin 3 only when you want to clear the CMOS memory. The default setting is pin 1 and pin 2 shorted for normal operation.



CD1 and AUX1 Connector:

- Connects to internal audio sources.



FAN Connectors:

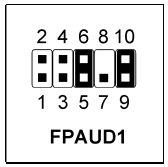
- CPU_FAN1: CPU fan
- CHA_FAN1: Chassis fan 1
- CHA_FAN2 Chassis fan 2
- SYSFAN: System fan

FDC1 Connector:

- Connects to a 3.5” floppy disk drive.

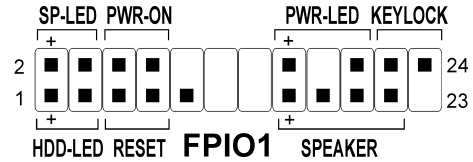
FPAUD1 Header:

- This header provides connection to audio connector at front panel.
- To use the Audio Connector at front panel, remove the jumpers at pin 5-6, and pin 9-10.
- To use the Audio Connector at rear panel, attach the jumpers back at pin 5-6, and pin 9-10 (default setting).



Pin	Pin Assignment	Pin	Pin Assignment
1	Audio Mic.	2	Ground
3	Audio Mic. Bias	4	VCC
5	Speaker Out Right Channel	6	Speaker Out Right Channel Return
7	X	8	NC
9	Speaker Out Left Channel	10	Speaker Out Left Channel Return

FPIO1 Header:



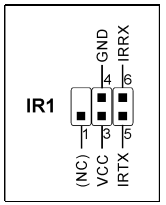
- **Pin 1-3 (HDD-LED):** Connects to the HDD LED cable of chassis front panel.
- **Pin 5-7 (RESET):** Connects to the Reset Switch cable of chassis front panel.
- **Pin 15-21 (SPEAKER):** Connects to the chassis system speaker cable.
- **Pin 2-4 (SP-LED):** Connects to the Suspend LED cable (if there is one) of chassis front panel.
- **Pin 6-8 (PWR-ON):** Connects to the Power Switch cable of chassis front panel.
- **Pin 16-20 (PWR-LED):** Connects to the Power LED cable of the chassis front panel.
- **Pin 22-24 (KEYLOCK)**: Connects to the Keylock cable (if there is one) of chassis front panel.

IDE1 and IDE2 Connectors:

- Connects to IDE hard disk, CD-ROM, or Zip drive, etc. Each port connects two drives.

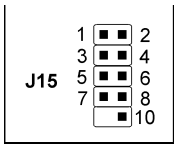
IR1 Header:

- These headers connect to an optional infrared device attached to chassis. This motherboard supports standard infrared transfer rates.



J15 Header:

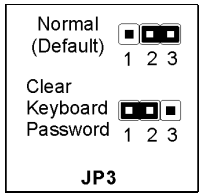
- This header provides two additional USB ports connection.



Pin	Pin Assignment	Pin	Pin Assignment
1	VCC	2	VCC
3	Data 0 -	4	Data 1 -
5	Data 0 +	6	Data 1 +
7	Ground	8	Ground
9	NC	10	NC

JP3 Header:

- This header enables the keyboard password clearing.



BIOS Setup

When you power the computer on, you will see the following message appear briefly at the bottom of the screen during POST:

PRESS DEL TO ENTER SETUP

If you want to configure the BIOS, you can press the <**Delete**> key immediately to enter the BIOS Setup Menu.

Note: *Don’t change the parameters inside the BIOS Setup Menu unless you are thoroughly aware of the BIOS settings.*