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Jumpers and Connectors

This chapter gives the definitions and shows where to locate the positions of jumpers and connectors.

Jumpers

Jumper on the CPU board are used to select options for certain features. To select any option, cover the jumper cap over (short) or remove it from (open) the jumper pins according to the follows instructions.



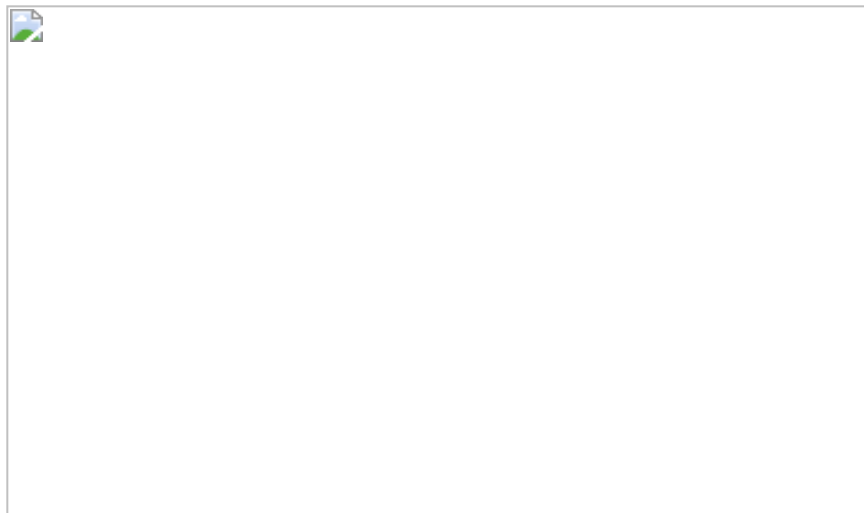
Switch Setting Table (*: default setup)

| Item | Function | | | Remark |
|-----------------------|----------|-------|-----|--------|
| PIIX4 Version | A1 | *B0 | | |
| JP1 | 1-2 | 2-3 | | |
| | | | | |
| CPU Base Clock | *66MHz | 60MHz | | |
| JP3 | NC | 1-2 | | |
| JP13 | 1-2 | 2-3 | | |
| | | | | |
| Core/Bus Ratio | 2X | 3X | *4X | |
| JP4 | 1-2 | 1-2 | 1-2 | |
| JP5 | 1-2 | 1-2 | 1-2 | |
| JP6 | 1-2 | NC | 1-2 | |
| JP10 | 1-2 | 1-2 | NC | |

| | | | | |
|-------------------------|----------|----------|-----------|-------|
| | | | | |
| | 2.5X | 3.5X | 4.5X | 5X |
| JP4 | 1-2 | 1-2 | 1-2 | 1-2 |
| JP5 | NC | NC | NC | 1-2 |
| JP6 | 1-2 | NC | 1-2 | NC |
| JP10 | 1-2 | 1-2 | NC | NC |
| | | | | |
| I/O Queue Depth | 1 | *MAX | | |
| JP7 | 1-2 | 2-3 | | |
| | | | | |
| WDT Port Address | *F2 | F6 | | |
| JP11 | 1-2 | NC | | |
| | | | | |
| CMOS RAM | Clear | *Normal | | |
| JP14 | 1-2 | NC | | |
| | | | | |
| BIOS Type | *EPROM | 5V Flash | 12V Flash | |
| JP15 | 2-3 | 2-3,4-5 | 1-2,4-5 | |
| | | | | |
| D.O.C. Address | C000 | C800 | D000 | *D800 |
| JP16 | 1-2 | 3-4 | 5-6 | 7-8 |
| | | | | |
| BIOS Size | *1M Bits | 2M Bits | | |
| J15 | 1-2 | 2-3 | | |
| | | | | |

Connectors

Connectors on the CPU Board provide interfaces to other devices.



| Connector | Function | Remark |
|-----------|--------------------|--------|
| J2 | IDE1 | |
| J3 | Floppy Connector | |
| J4 | PIO Connector | |
| J5 | IDE LED | |
| J7 | IDE 2 | |
| J8 | Speaker | |
| J9 | Reset Switch | |
| J10 | USB Connector | |
| J11 | Keyboard Connector | |
| JP12 | Key Lock | |
| J14 | COM 2 | |
| J16 | PS/2 Mouse | |
| J17 | COM 1 | |
| J20 | CPU Fan | |
| J21 | PS/2 Keyboard | |

Pin definitions of connectors

J2/J7: IDE Interface Connector

| PIN No. | Description | PIN No. | Description |
|---------|-------------|---------|-------------|
| 1 | Reset# | 2 | Ground |
| 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 | Ground | 20 | N/C |
| 21 | DMA REQ | 22 | Ground |
| 23 | IOW# | 24 | Ground |
| 25 | IOR# | 26 | Ground |
| 27 | IOCHRDY | 28 | N/C |
| 29 | DMA ACK | 30 | Ground |
| 31 | Interrupt | 32 | NC |
| 33 | SA1 | 34 | N/C |
| 35 | SA0 | 36 | SA2 |
| 37 | HDC CS0# | 38 | HDC CS1# |

| | | | |
|----|-------------|----|--------|
| 39 | HDD Active# | 40 | Ground |
|----|-------------|----|--------|

J3: FDC Connector

| PIN No. | Description | PIN No. | Description |
|---------|-------------|---------|-------------------|
| 1 | Ground | 2 | Density Select |
| 3 | Ground | 4 | N/C |
| 5 | Ground | 6 | N/C |
| 7 | Ground | 8 | Index# |
| 9 | Ground | 10 | Motor Enable A# |
| 11 | Ground | 12 | Drive Select B# |
| 13 | Ground | 14 | Drive Select A# |
| 15 | Ground | 16 | Motor Enable B# |
| 17 | Ground | 18 | Direction# |
| 19 | Ground | 20 | Step# |
| 21 | Ground | 22 | Write Data# |
| 23 | Ground | 24 | Write Gate# |
| 25 | Ground | 26 | Track 0# |
| 27 | Ground | 28 | Write Protect# |
| 29 | N/C | 30 | Read Data# |
| 31 | Ground | 32 | Head Side Select# |
| 33 | N/C | 34 | Disk Change# |

J4: Parallel Port Connector

| PIN No. | Description | PIN No. | Description |
|---------|--------------------|---------|-----------------|
| 1 | Strobe# | 2 | Data 0 |
| 3 | Data 1 | 4 | Data 2 |
| 5 | Data 3 | 6 | Data 4 |
| 7 | Data 5 | 8 | Data 6 |
| 9 | Data 7 | 10 | Acknowledge |
| 11 | Busy | 12 | Paper Empty |
| 13 | Printer Select | 14 | Auto Form Feed# |
| 15 | Error# | 16 | Initialize |
| 17 | Printer Select IN# | 18 | Ground |
| 19 | Ground | 20 | Ground |
| 21 | Ground | 22 | Ground |
| 23 | Ground | 24 | Ground |

| | | | |
|----|--------|----|-----|
| 25 | Ground | 26 | GND |
|----|--------|----|-----|

J5: IDE LED Connector

| PIN No. | Description |
|---------|------------------|
| 1 | Power |
| 2 | IDE LED Active # |

J8: Speaker

| PIN No. | Description |
|---------|----------------|
| 1 | Speaker signal |
| 2 | Ground |
| 3 | Ground |
| 4 | VCC |

J9: Reset

| PIN No. | Description |
|---------|-------------|
| 1 | Reset |
| 2 | Ground |

JP12: Key lock

| PIN No. | Description |
|---------|-------------|
| 1 | VCC |
| 2 | N/C |
| 3 | Ground |
| 4 | Key lock# |
| 5 | Ground |

J10: USB connector

| PIN No. | Description |
|---------|-------------|
| 1 | VCC |
| 2 | SBD0- |
| 3 | SBD0+ |
| 4 | SBD1- |
| 5 | SBD1+ |
| 6 | Ground |

J11: Keyboard Connector

| PIN No. | Description |
|---------|----------------|
| 1 | Keyboard Clock |
| 2 | Keyboard Data |
| 3 | N/C |
| 4 | Ground |
| 5 | +5V |

J14/17: Serial Port Connector (D-Sub 9 -pin)

| PIN No. | Description |
|---------|---------------------------|
| 1 | Data Carrier Detect (DCD) |
| 2 | Receive Data (RXD) |
| 3 | Transmit Data (TXD) |
| 4 | Data Terminal Ready (DTR) |
| 5 | Ground (GND) |
| 6 | Data Set Ready (DSR) |
| 7 | Request to Send (RTS) |
| 8 | Clear to Send (CTS) |
| 9 | Ring Indicator (RI) |

J16: PS/2 Mouse connector

| PIN No. | Description |
|---------|-------------|
| 1 | Mouse Data |
| 2 | N/C |
| 3 | Ground |
| 4 | +5V |
| 5 | Mouse Clock |
| 6 | N/C |

J20: CPU Fan

| PIN No. | Description |
|---------|-------------|
| 1 | GND |
| 2 | +12V |
| 3 | Sense |

J21: Keyboard Connector PS/2 (Mini DIN)

| PIN No. | Description |
|---------|----------------|
| 1 | Keyboard data |
| 2 | NC |
| 3 | GND |
| 4 | +5V |
| 5 | Keyboard clock |
| 6 | NC |