# Quick Reference Guide

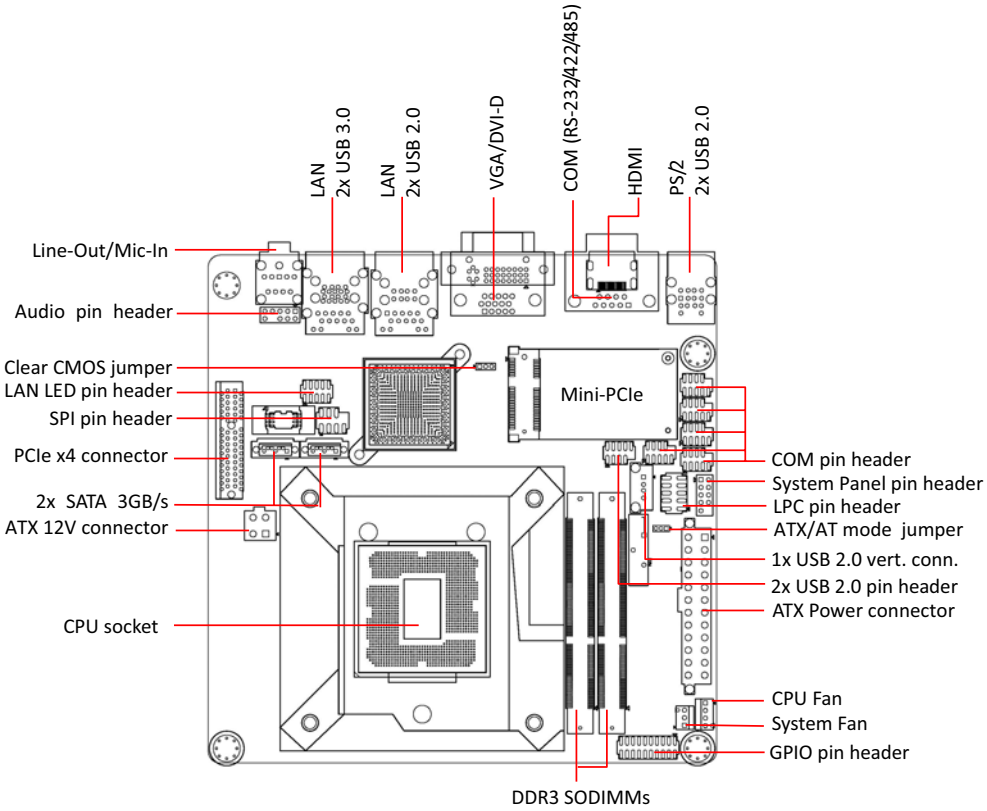
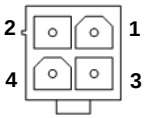



**Figure 1: IMB-M40H Board Layout**

## ATX 12V Power Connector (ATX12V1)

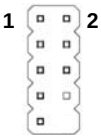
| Pin # | Signal |
|---|---|
| 1 | GND |
| 2 | GND |
| 3 | +12V DC |
| 4 | +12V DC |




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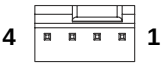
## Serial Port Connectors - RS-232 (COM2~6)

| Pin # | Signal | Function |
|---|---|---|
| 1 | DCD | Data Carrier Detect |
| 2 | DSR | Data Set Ready |
| 3 | RXD | Receive Data |
| 4 | RTS | Request to Send |
| 5 | TXD | Transmit Data |
| 6 | CTS | Clear to Send |
| 7 | DTR | Data Terminal Ready |
| 8 | RI | Ring Indicate |
| 9 | GND | Ground |
| 10 | NC | Key |



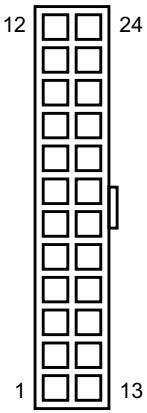

## CPU Fan Connector (CPU_FAN1)

| Pin # | Signal |
|---|---|
| 1 | GND |
| 2 | +12V |
| 3 | Tach |
| 4 | PWM |




## ATX Power Connector (EATXPWR1)

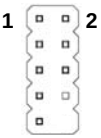
| Pin # | Signal | Pin # | Signal |
|---|---|---|---|
| 1 | +3.3V | 13 | +3.3V |
| 2 | +3.3V | 14 | -12V |
| 3 | GND | 15 | GND |
| 4 | +5V | 16 | PS-ON# |
| 5 | GND | 17 | GND |
| 6 | +5V | 18 | GND |
| 7 | GND | 19 | GND |
| 8 | PWRGD | 20 | NC |
| 9 | +5VSB | 21 | +5V |
| 10 | +12V | 22 | +5V |
| 11 | +12V | 23 | +5V |
| 12 | +3.3V | 24 | GND |




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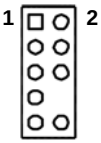
## System Panel Header (F_PANEL)

| Pin # | Signal | Function |
|---|---|---|
| 1 | HDDLED+ | HDD Activity |
| 2 | POWERLED+ | Power LED |
| 3 | HDDLED- | HDD Activity |
| 4 | POWERLED- | Power LED |
| 5 | GND | Reset Button |
| 6 | PWSWITCH | ATX Power/Soft-off Button |
| 7 | RESET | Reset Button |
| 8 | GND | ATX Power/Soft-off Button |
| 9 | NC | Not Connected |
| 10 | NC | Key |



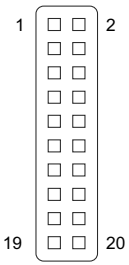

## Front Panel Audio Pin Header (FPAUD1)

| Pin # | Signal | Pin # | Signal |
|---|---|---|---|
| 1 | MIC2_L | 2 | GND |
| 3 | MIC2_R | 4 | PRESENSE |
| 5 | LIN2_R | 6 | MIC2_JD |
| 7 | FIO_SENSE A | 8 | NC |
| 9 | LIN2_L | 10 | LINE_JD |




## GPIO Connector (JDIO)

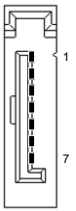
| Pin # | Signal | Pin # | Signal |
|---|---|---|---|
| 1 | SIO_GPIO0 | 2 | SIO_GPIO8 |
| 3 | SIO_GPIO1 | 4 | SIO_GPIO9 |
| 5 | SIO_GPIO2 | 6 | SIO_GPIO10 |
| 7 | SIO_GPIO3 | 8 | SIO_GPIO11 |
| 9 | SIO_GPIO4 | 10 | SIO_GPIO12 |
| 11 | SIO_GPIO5 | 12 | SIO_GPIO13 |
| 13 | SIO_GPIO6 | 14 | SIO_GPIO14 |
| 15 | SIO_GPIO8 | 16 | SIO_GPIO15 |
| 17 | SMB_CLK_MAIN | 18 | SMB_DAT_MAIN |
| 19 | GND | 20 | +5V_SB |




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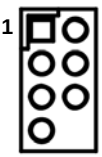
## SATA Connectors (SATA1~2)

| Pin # | Signal |
|---|---|
| 1 | GND |
| 2 | TXP |
| 3 | TXN |
| 4 | GND |
| 5 | RXN |
| 6 | RXP |
| 7 | GND |



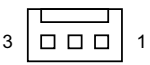

## SPI Header (SPI1)

| Pin # | Signal | Pin # | Signal |
|---|---|---|---|
| 1 | +3V ROM | 2 | GND |
| 3 | SPI_CS# | 4 | SPI_CLK |
| 5 | SPI_MISO | 6 | SPI_MOSI |
| 7 | SPI_HOLD# | 8 | Key |

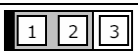
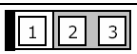



## System Fan Connector (SYS_FAN)

| Pin # | Signal |
|---|---|
| 1 | GND |
| 2 | VCC (PWM) |
| 3 | IO |

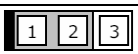
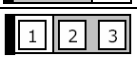



## Clear CMOS (JCMOS1)

| Mode | Connection | PWR_JP1 |
|---|---|---|
| +5 | 1 – 2 |  |
| RI# | 2 – 3 |  |



## AT/ATX Power Mode Select (JPSON)

| Mode | Connection | PWR_JP1 |
|---|---|---|
| ATX Mode | 1 – 2 |  |
| AT Mode | 2 – 3 |  |





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