



P/N: 15G06M052000AK V1.0

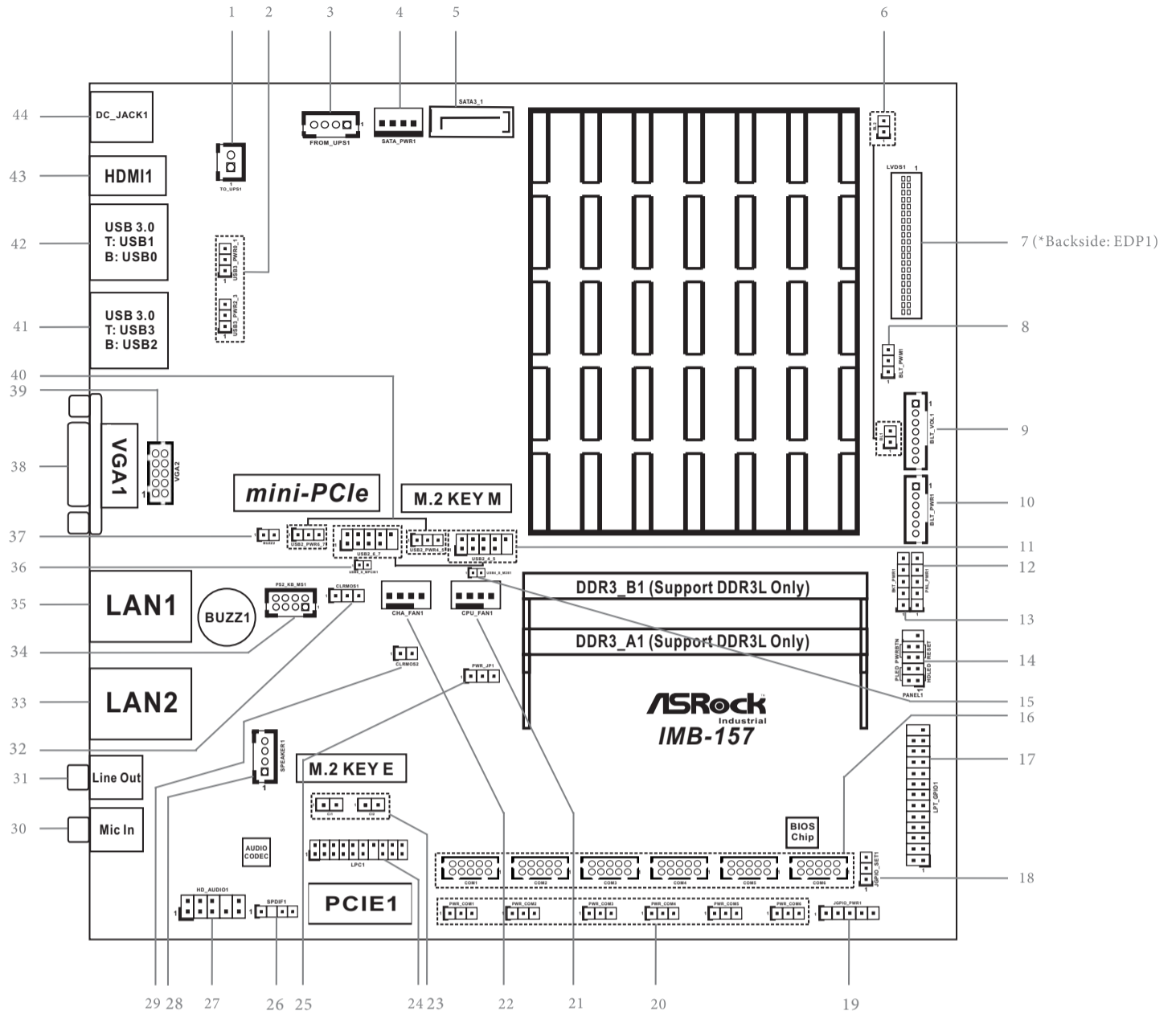


Jumpers and Headers Setting Guide

IMB-157

IMB-157M

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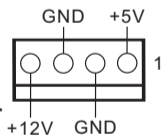
1 : 2-pin UPS Module Power Input Connector
 Pin1: GND
 Pin2: DC Input



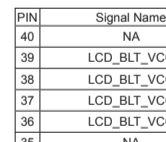
2 : USB Power Setting Jumpers
 (USB3_PWR0_1 (For USB3_0_1))
 (USB3_PWR2_3 (For USB3_2_3))
 1-2: +5V
 2-3: +5VSB



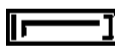
3 : 4-pin DC-in PWR Connector (Input +12V or +19V~+24V) & UPS Module Power Output Connector
 Pin1 and Pin4: GND
 Pin2 and Pin3: DC Input



4 : SATA Power Output Connector



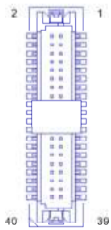
5 : SATA3 Connector (SATA3_1)



6 : BL1, BL2

7 : LVDS Panel Connector

| PIN | Signal Name | PIN | Signal Name |
|-----|---------------|-----|---------------|
| 2 | LCD_VCC | 1 | LCD_VCC |
| 4 | LDDC_CLK | 3 | +3.3V |
| 6 | LVDS_A_DATA0# | 5 | LDDC_DATA |
| 8 | GND | 7 | LVDS_A_DATA0 |
| 10 | LVDS_A_DATA1 | 9 | LVDS_A_DATA1# |
| 12 | LVDS_A_DATA2# | 11 | GND |
| 14 | GND | 13 | LVDS_A_DATA2 |
| 16 | LVDS_A_DATA3 | 15 | LVDS_A_DATA3# |
| 18 | LVDS_A_CLK# | 17 | GND |
| 20 | GND | 19 | LVDS_A_CLK |
| 22 | LVDS_B_DATA0 | 21 | LVDS_B_DATA0# |
| 24 | LVDS_B_DATA1# | 23 | GND |
| 26 | GND | 25 | LVDS_B_DATA1 |
| 28 | LVDS_B_DATA2 | 27 | LVDS_B_DATA2# |
| 30 | LVDS_B_DATA3# | 29 | DPLVDD_EN |
| 32 | NC | 31 | LVDS_B_DATA3 |
| 34 | LVDS_B_CLK | 33 | LVDS_B_CLK# |
| 36 | CON_LBKLT_EN | 35 | GND |
| 38 | LCD_BLT_VCC | 37 | CON_LBKLT_CTL |
| 40 | LCD_BLT_VCC | 39 | LCD_BLT_VCC |



* eDP Connector
 (on the Backside of PCB)

8 : Backlight Control Level (BLT_PWM1)
 1-2: From eDP PWM to CON_LBKLT_CTL
 2-3: From LVDS PWM to CON_LBKLT_CTL



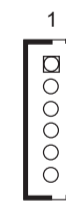
9 : Backlight Volume Control (BLT_VOL1)

| PIN | Signal Name |
|-----|---------------|
| 1 | GPIO_VOL_UP |
| 2 | GPIO_VOL_DW |
| 3 | PWRDN |
| 4 | BRIGHTNESS_UP |
| 5 | BRIGHTNESS_DW |
| 6 | GND |
| 7 | GND |

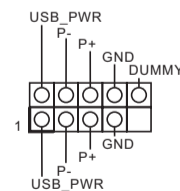


10 : Backlight Power Connector (BLT_PWR1)

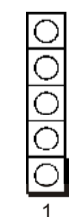
| PIN | Signal Name |
|-----|---------------|
| 1 | GND |
| 2 | GND |
| 3 | CON_LBKLT_CTL |
| 4 | CON_LBKLT_EN |
| 5 | LCD_BLT_VCC |
| 6 | LCD_BLT_VCC |



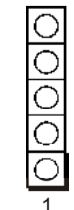
11 : USB2.0 Connectors (USB2_4_5, USB2_6_7)



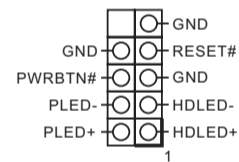
12 : Panel Power Select (LCD_VCC) (PNL_PWR1)
 1-2: LCD_VCC: +3V
 2-3: LCD_VCC: +5V
 4-5: LCD_VCC: +12V



13 : Backlight Power Select (LCD_BLT_VCC) (BKT_PWR1)
 1-2: LCD_BLT_VCC: +5V
 2-3: LCD_BLT_VCC: +12V
 4-5: LCD_BLT_VCC: DC Input

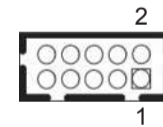


14 : System Panel Header



15 : USB4_S_M2E1
 Pin1 short USB2_4_5 pin3 and pin2 short USB2_4_5 pin5: share USB port 4 of USB2_4_5 header to M.2 KEY E

16 : Internal COM Port Headers
 COM1, 2 (RS232/422/485)
 COM3, 4, 5, 6 (RS232)

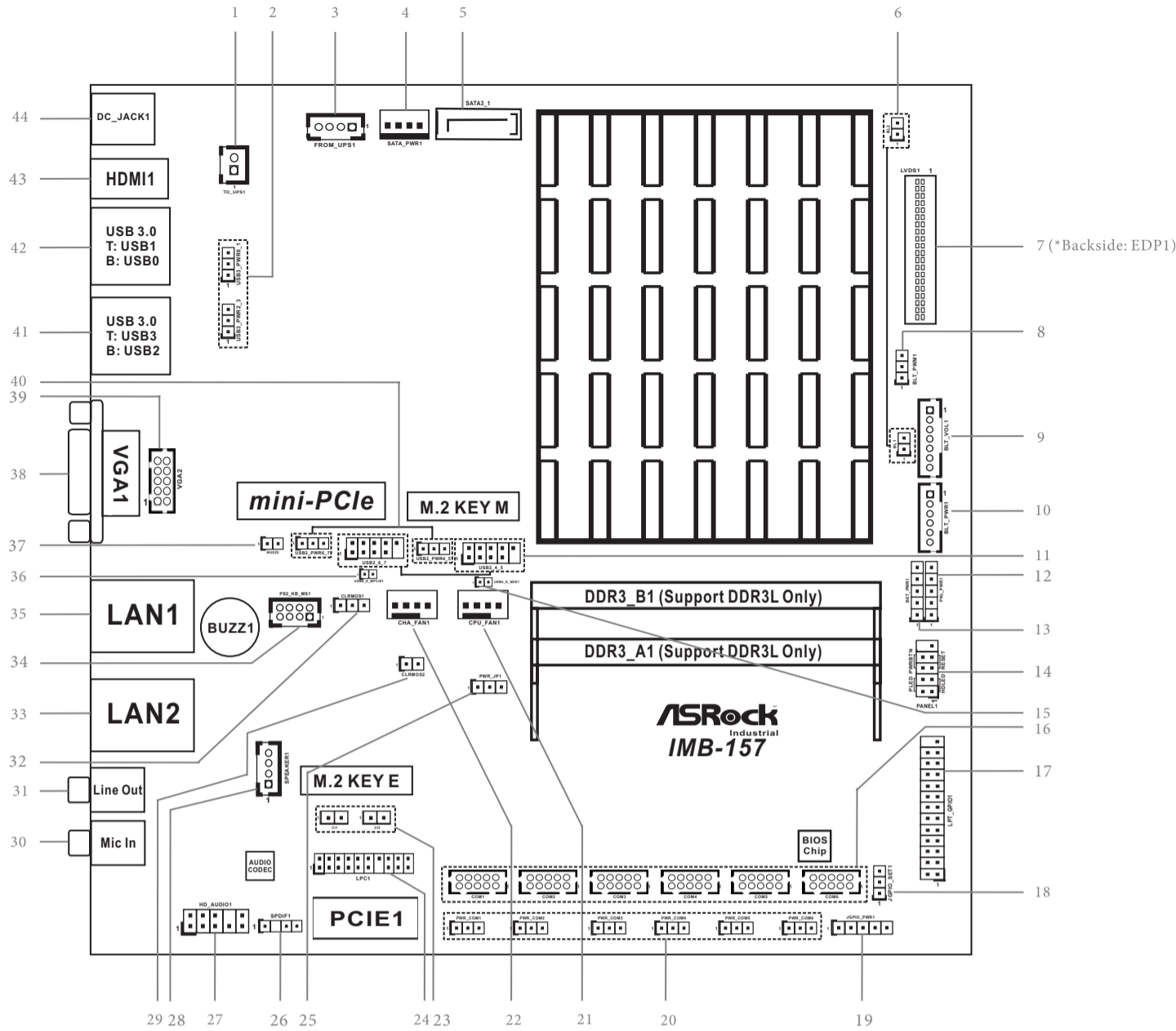


| PIN | Signal Name | PIN | Signal Name | PIN | Signal Name | PIN | Signal Name | PIN | Signal Name |
|-----|-------------|-----|-------------|-----|-------------|-----|-------------|-----|-------------|
| 10 | N/A | 8 | CCTS# | 6 | DDSR# | 4 | DDTR# | 2 | RRXD |
| 9 | PWR | 7 | RRTS# | 5 | GND | 3 | TTXD | 1 | DDCD# |

* This motherboard supports RS232/422/485 on COM1, 2 ports. Please refer to below table for the pin definition. In addition, COM1, 2 ports (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to our user manual for details.

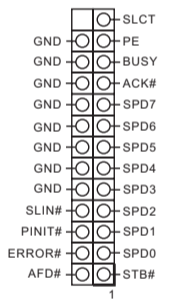
COM1, 2 Port Pin Definition

| PIN | RS232 | RS422 | RS485 |
|-----|-------|-------|-------|
| 1 | DCD | TX- | RTX- |
| 2 | RXD | RX+ | N/A |
| 3 | TXD | TX+ | RTX+ |
| 4 | DTR | RX- | N/A |
| 5 | GND | GND | GND |
| 6 | DSR | N/A | N/A |
| 7 | RTS | N/A | N/A |
| 8 | CTS | N/A | N/A |
| 9 | PWR | PWR | PWR |
| 10 | N/A | N/A | N/A |



17 : Printer Port / GPIO Header (LPT_GPIO1)

Printer Port:



GPIO:

| PIN | Signal Name | PIN | Signal Name |
|-----|-------------|-----|-------------|
| 26 | NC | 25 | NA |
| 24 | GND | 23 | SIO_GP30 |
| 22 | GND | 21 | SIO_GP31 |
| 20 | GND | 19 | SIO_GP32 |
| 18 | GND | 17 | SIO_GP33 |
| 16 | GND | 15 | SIO_GP34 |
| 14 | GND | 13 | SIO_GP35 |
| 12 | JGPIO_PWR | 11 | SIO_GP36 |
| 10 | JGPIO_PWR | 9 | SIO_GP37 |
| 8 | SIO_GP43 | 7 | SIO_GP40 |
| 6 | SIO_GP44 | 5 | SIO_GP41 |
| 4 | SIO_GP45 | 3 | SIO_GP42 |
| 2 | SIO_GP46 | 1 | SIO_GP47 |

* If you want to use the printer port function, please short pin4 and pin5 on Digital Input / Output Power Select (JGPIO_PWR1).

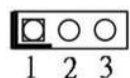
18 : Digital Input / Output Default Value Setting (JGPIO_SET1)
1-2: Pull-High
2-3: Pull-Low



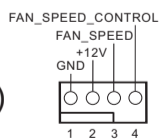
19 : Digital Input / Output Power Select (JGPIO_PWR) (JGPIO_PWR1)
1-2: +12V
2-3: +5V
4-5: GND



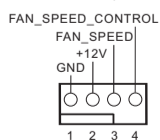
20 : COM Port Pin9 PWR Setting Jumpers PWR_COM1 ~ 6 (For COM Port1 ~ 6)
1-2: +5V
2-3: +12V



21 : 4-Pin CPU FAN Connector (+12V)



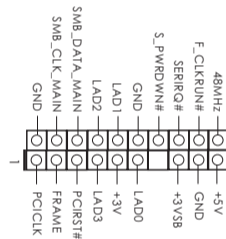
22 : 4-Pin Chassis FAN Connector (+12V)



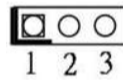
23 : Chassis Intrusion Headers
C11:
Close: Active Case Open
Open: Normal
C12:
Close: Normal
Open: Active Case Open



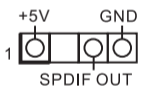
24 : LPC Header



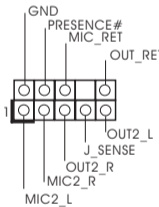
25 : ATX/AT Mode Select
1-2: AT Mode
2-3: ATX Mode



26 : SPDIF Header

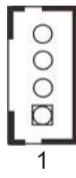


27 : Front Panel Audio Header



28 : 3W Audio AMP Output Wafer

| PIN | Signal Name |
|-----|-------------|
| 4 | OUTRN |
| 3 | OUTRP |
| 2 | OUTLP |
| 1 | OUTLN |

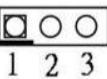


29 : Clear CMOS Jumper
Open: Normal
Short: Auto Clear CMOS When AC Power On



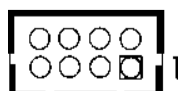
30 : Audio Output: Pink – Mic In
31 : Audio Output: Green – Line Out

32 : Clear CMOS Header
1-2: Normal
2-3: Clear CMOS



33 : RJ45 LAN Port (LAN2)

34 : PS2 Keyboard/Mouse Header



| PIN | Signal Name | PIN | Signal Name | PIN | Signal Name | PIN | Signal Name |
|-----|-------------|-----|-------------|-----|-------------|-----|-------------|
| 8 | GND | 6 | GND | 4 | USB2_PWR6_7 | 2 | USB2_PWR6_7 |
| 7 | MSCLK | 5 | MSDATA | 3 | KBDATA | 1 | KBCLK |

M.2 KEY M (M2)

| Pin# | Signal# | Signal# | Pin# |
|------|----------|-----------|------|
| 1# | GND# | +3.3V# | 2# |
| 3# | GND# | +3.3V# | 4# |
| 5# | NA# | NA# | 6# |
| 7# | NA# | NA# | 8# |
| 9# | GND# | NA | 10# |
| 11# | NA# | +3.3V# | 12# |
| 13# | NA# | +3.3V# | 14# |
| 15# | GND# | +3.3V# | 16# |
| 17# | NA# | +3.3V# | 18# |
| 19# | NA# | NA# | 20# |
| 21# | GND# | NA# | 22# |
| 23# | NA# | NA# | 24# |
| 25# | NA# | NA# | 26# |
| 27# | GND# | NA# | 28# |
| 29# | NA# | NA# | 30# |
| 31# | NA# | NA# | 32# |
| 33# | GND# | NA# | 34# |
| 35# | NA# | NA# | 36# |
| 37# | NA# | NA | 38# |
| 39# | GND# | SMB_CLK# | 40# |
| 41# | SATA_RX# | SMB_DATA# | 42# |
| 43# | SATA_RX# | NA# | 44# |
| 45# | GND# | NA# | 46# |
| 47# | SATA_TX# | NA# | 48# |
| 49# | SATA_TX# | NA | 50# |
| 51# | GND# | NA | 52# |
| 53# | NA | NA | 54# |
| 55# | NA | NA# | 56# |
| 57# | GND# | NA# | 58# |
| 67# | NA# | NA | 68# |
| 69# | GND# | +3.3V# | 70# |
| 71# | GND# | +3.3V# | 72# |
| 73# | GND# | +3.3V# | 74# |
| 75# | GND# | NA | 76# |

M.2 KEY E (M2_2)

| Pin# | Signal# | Signal# | Pin# |
|------|---------|-----------|------|
| 1# | GND# | +3.3V# | 2# |
| 3# | USB_D# | +3.3V# | 4# |
| 5# | USB_D# | NA# | 6# |
| 7# | GND# | NA# | 8# |
| 9# | NA# | NA# | 10# |
| 11# | NA# | NA# | 12# |
| 13# | NA# | NA# | 14# |
| 15# | NA# | NA# | 16# |
| 17# | NA# | GND# | 18# |
| 19# | NA# | NA# | 20# |
| 21# | NA# | NA# | 22# |
| 23# | NA# | NA | 24# |
| 33# | GND# | NA# | 32# |
| 35# | PETr# | NA# | 34# |
| 37# | PETr# | NA# | 36# |
| 39# | GND# | NA# | 38# |
| 41# | PETr# | NA# | 40# |
| 43# | PETr# | NA# | 42# |
| 45# | GND# | NA# | 44# |
| 47# | PEFCLK# | NA# | 46# |
| 49# | PEFCLK# | NA# | 48# |
| 51# | GND# | NA | 50# |
| 53# | CLKREQ# | PERSTO# | 52# |
| 55# | WAKE# | NA | 54# |
| 57# | GND# | NA | 56# |
| 59# | NA# | SMB_DATA# | 58# |
| 61# | NA# | SMB_CLK# | 60# |
| 63# | GND# | NA# | 62# |
| 65# | NA# | NA# | 64# |
| 67# | NA# | NA# | 66# |
| 69# | GND# | NA# | 68# |
| 71# | NA# | NA# | 70# |
| 73# | NA# | +3.3V# | 72# |
| 75# | GND# | +3.3V# | 74# |

35 : RJ45 LAN Port (LAN1)

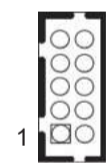
36 : USB6_S_MPCIE1
Pin1 short USB2_6_7 pin3 and pin2 short USB2_6_7 pin5: share USB port 6 of USB2_6_7 header to MPCIE1

37 : Buzzer
+5V Signal

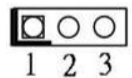
38 : VGA Port

39 : VGA Header

| PIN | Signal Name | PIN | Signal Name |
|-----|-------------|-----|-------------|
| 9 | DDC_CLK | 10 | DDC_DATA |
| 7 | HSYNC | 8 | VSYNC |
| 5 | BLUE | 6 | GND |
| 3 | GREEN | 4 | GND |
| 1 | RED | 2 | GND |



40 : USB Power Setting Jumpers (USB2_PWR4_5 (For USB2_4_5)) (USB2_PWR6_7 (For USB2_6_7 and PS2_KB_MS1))
1-2: +5V
2-3: +5VSB



41 : USB3.0 Ports (USB3_2_3)
42 : USB3.0 Ports (USB3_0_1)
43 : HDMI Port
44 : DC Jack