

**1 : ATX/AT Mode Select**  
 1-2 : AT Mode  
 2-3 : ATX Mode (Default)

**2 : Digital Input/Output Power Select**  
 1-2 : +12V  
 2-3 : +5V (Default)

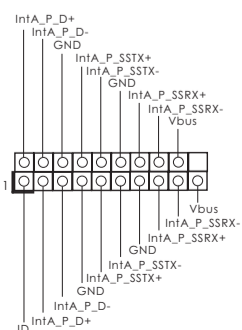
**3 : GPIO Default Setting**  
 1-2 : Pull-High (Default)  
 2-3 : Pull-Low

**4 : mSATA Select**  
 1-2 : Mini-PCIE + SATA3\_4 (Default)  
 2-3 : mSATA (no SATA3\_4)

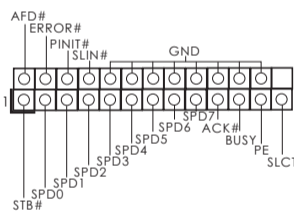
**COM Port PWR Setting Jumpers**  
**5 : PWR\_COM3 (For COM Port3)**  
 PWR\_COM4 (For COM Port4)  
 1-2 : +5V (Default)  
 2-3 : +12V

**29 : PWR\_COM1 (For COM Port1)**  
 PWR\_COM2 (For COM Port2)  
 1-2 : +12V  
 3-4 : RI# (Default)  
 5-6 : +5V

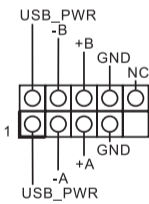
**6 : USB3.0 Header**



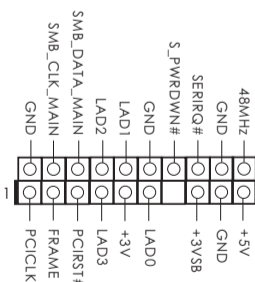
**7 : Printer Port Header**



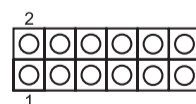
**8 : USB2.0 Header**



**9 : LPC Header**

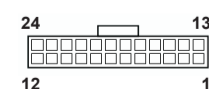


**10 : Digital Input/Output Pin Header**

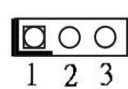


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
2	SIO_GP20	4	SIO_GP21	6	SIO_GP22	8	SIO_GP23	10	SMB_DATA
1	SIO_GP24	3	SIO_GP25	5	SIO_GP26	7	SIO_GP27	9	SMB_CLK
								11	JGPIO_PWR
								12	GND

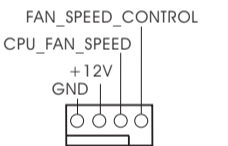
**11 : 24-pin ATX Power Input Connector**



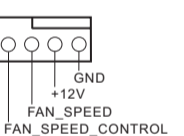
**12 : Clear CMOS Header**  
 1-2 : Normal (Default)  
 2-3 : Clear CMOS



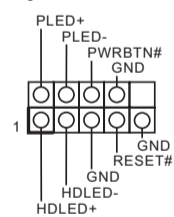
**13 : 4-Pin CPU FAN Connector (+12V)**



**14 : 4-Pin Chassis FAN Connector (+12V)**



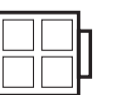
**15 : System Panel Header**



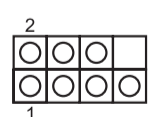
**16 : 3W Audio AMP Output Wafer**

PIN	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN

**17 : 4-pin ATX Power Input Connector**



**18 : SPI Connector**

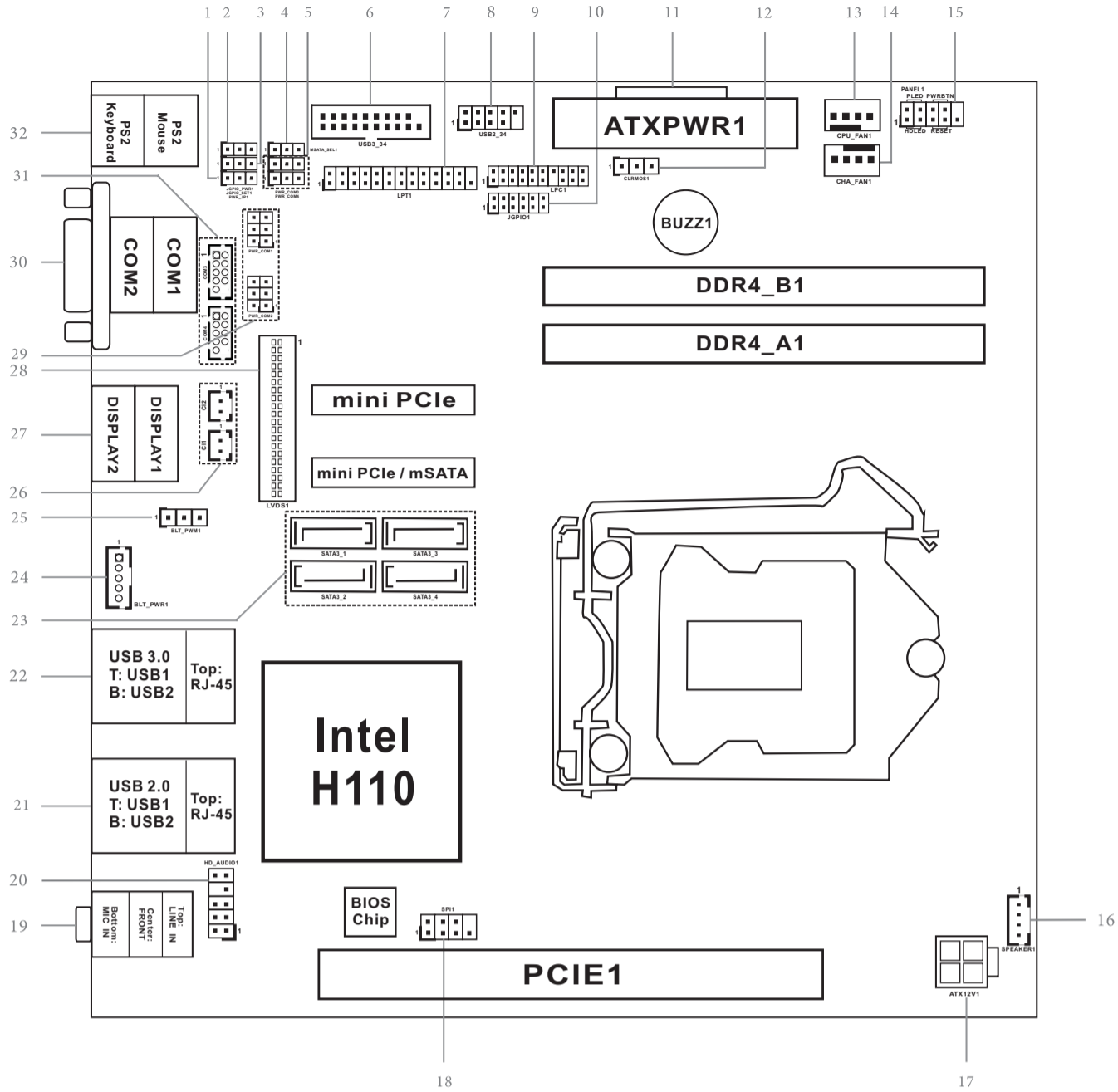


For BIOS EEPROM Update Use Only

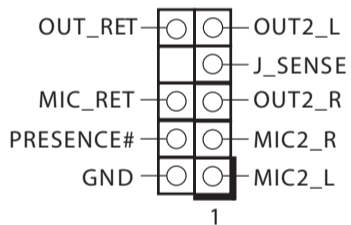
PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
7	GND	5	CLK	3	SPI_MOSI	1	NC
8	+3.3V	6	SPI_CS#	4	SPI_MISO	2	SPI_HOLD1#

**19 : Audio Output**

Blue - Line In  
 Green - Line Out  
 Pink - Mic In



20 : Front Panel Audio Header



21 : Top : RJ45 LAN Port (LAN2)  
Bottom : USB2.0 Ports (USB2\_12)

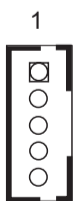
22 : Top : RJ45 LAN Port (LAN1)  
Bottom : USB3.0 Ports (USB3\_12)

23 : SATA3 Connectors  
(SATA3\_1, SATA3\_2, SATA3\_3, SATA3\_4)



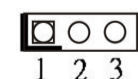
24 : Inverter Power Control Wafer (BLT\_PWR1)

PIN	Signal Name
1	+12_BL
2	GND
3	CON_LBKLT_EN
4	CON_LBKLT_CTL
5	+5V_BL



25 : Backlight Control Level (BLT\_PWM1)

1-2 : +3V  
2-3 : +5V (Default)



26 : Chassis Intrusion Headers

CI1 :  
Close : Active Case Open  
Open : Normal

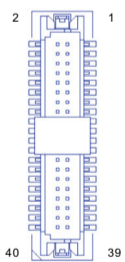
CI2 :  
Close : Normal  
Open : Active Case Open



27 : Top : DisplayPort (DP1)  
Bottom : DisplayPort (DP2)

28 : LVDS Panel Connector

PIN	Signal Name	PIN	Signal Name
2	VDD_+5V	1	VDD_+3.3V
4	VDD_+5V	3	VDD_+3.3V
6	DDC_DATA	5	DDC_CLK
8	GND	7	GND
10	LVDS_A0+	9	LVDS_A1+
12	LVDS_A0-	11	LVDS_A1-
14	GND	13	GND
16	LVDS_A2+	15	LVDS_A3+
18	LVDS_A2-	17	LVDS_A3-
20	GND	19	GND
22	LVDS_B0+	21	LVDS_B1+
24	LVDS_B0-	23	LVDS_B1-
26	GND	25	GND
28	LVDS_B2+	27	LVDS_B3+
30	LVDS_B2-	29	LVDS_B3-
32	GND	31	GND
34	LVDS_A_CLK+	33	LVDS_B_CLK+
36	LVDS_A_CLK-	35	LVDS_B_CLK-
38	GND	37	GND
40	VDD_+12V	39	VDD_+12V



30 : Top : COM Port (COM1) (RS232/422/485)  
Bottom : COM Port (COM2) (RS232)

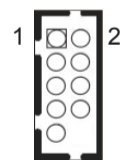
\* This motherboard supports RS232/422/485 on COM1 port. Please refer to below table for the pin definition. In addition, COM1 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to our user manual for details.

COM1 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	Ri# / +5V / +12V	N/A	N/A

31 : COM3, 4 Headers (RS232)

PIN	Signal Name	PIN	Signal Name
1	DDCD#	2	RRXD
3	TTXD	4	DDTR#
5	GND	6	DDSR#
7	RRTS#	8	CCTS#
9	+5V / +12V	10	NC



32 : Top : PS/2 Mouse Port (Green)  
Bottom : PS/2 Keyboard Port (Purple)