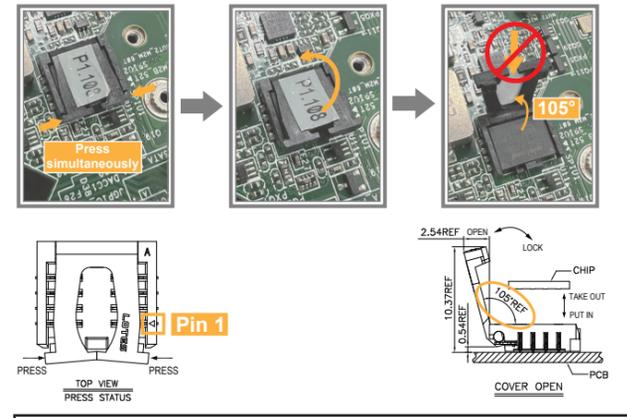


Installation of LOTES ROM Socket



- Do not press one side of the actuator cover at a time. Always apply even and simultaneous force to both sides to avoid damage.
- Do not apply force to the actuator cover after the IC is inserted, especially when it is fully opened at 105 degrees. Pressing vertically at this angle may cause the cover to break.



- The white dot (Pin 1) on the ROM must align with the Pin 1 position of the socket (white arrow area).
 - Ensure the white dot on the ROM is facing outward from the socket.
- Warning: Incorrect installation may damage the chipset and motherboard. Refer to the picture for proper orientation.**

25 : Buzzer Header (BUZZ2)

Pin	Signal Name
1	+5V#
2	BUZZ



34 : Chassis Intrusion Header (CI1)

Open : Normal (Default)
Short : Active Case Open



26 : ATX/AT Mode Jumper (SIO_AT1)

Short: ATX Mode (Default)
Open: AT Mode



35 : M.2 Key-M Socket (M2_M1)

Pin	Signal Name	Signal Name	Pin
1	GND	+3.3V	2
3	GND	+3.3V	4
5	NA	NA	6
7	NA	NA	8
9	GND	LED	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	USB_D+	34
35	NA	USB_D-	36
37	NA	DEVSLP	38
39	GND	SMB_CLK	40
41	PERn0	SMB_DATA	42
43	PERp0	NA	44
45	GND	NA	46
47	PETn0	NA	48
49	PETp0	PERST#	50
51	GND	CLKREQ#	52
53	PEFCLKn	NA	54
55	PEFCLKp	NA	56
57	GND	NA	58
67	NA	NA	68
69	PEDET	+3.3V	70
71	GND	+3.3V	72
73	GND	+3.3V	74
75	GND		

27 : DACC1

Open: no ACC
Short: ACC (Default)



* Auto clear CMOS when system boot improperly.

28 : COM Port PWR Setting Jumpers

PWR_COM3 (For COM Port3)
PWR_COM4 (For COM Port4)
PWR_COM5 (For COM Port5)
Open : +0V
1-2: +5V (Default)
2-3: +12V



29 : COM Port Headers (COM3~5) (RS232/422/485) *

* This motherboard supports RS232/422/485 on COM3, 4 and 5 ports. Please refer to the table below for the pin definition. In addition, COM3, 4 and 5 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.

COM3, 4 and 5 Ports Pin Definition

Pin	RS232	RS422	RS485
1	DCD	TX-	RTX-
2	RXD	TX+	RTX+
3	TXD	RX+	NA
4	DTR	RX-	NA
5	GND	GND	GND
6	DSR	NA	NA
7	RTS	NA	NA
8	CTS	NA	NA
9	PWR	PWR	PWR



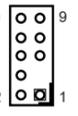
30 : BIOS_PH1 (Programming Header)

*For offline BIOS flashing with the EQUIP-USB3-SPI programmer only.



31 : TPM Header (TPM1)

Pin	Signal Name	Signal Name	Pin
1	TPM PWR	RST#	2
3		CS#	4
5	IRA	MOSI	6
7	MISO	GND	8
9	CLK	GND	10



32 : M2_OOB1

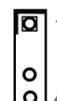
33 : Clear CMOS Headers

CLRMO1
1-2 : Normal (Default)
2-3 : Clear CMOS
CLRMO2
Open : Normal (Default)
Short : Auto Clear CMOS
When AC Power On



36 : SPDIF Header (SPDIF1)

Pin	Signal Name
1	+5V
2	
3	SPDIF OUT
4	GND



37 : Mic In (MIC1)

38 : Front Panel Audio Header (HD_AUDIO1)

Pin	Signal Name	Signal Name	Pin
1	MIC2_L	GND	2
3	MIC2_R		4
5	OUT2_R	MIC_RET	6
7	J SENSE		8
9	OUT2_L	OUT_RET	10



39 : Line Out (LOUT1)

40 : USB 3.2 Gen1 Ports (USB3H_3_4)

Top: USB3H_4
Bottom: USB3H_3

41 : 3W Audio AMP Output Wafer (SPEAKER1)

Pin	Signal Name
1	OUTLN
2	OUTLP
3	OUTRP
4	OUTRN



42 : RJ45 LAN Port (LAN2)

43 : RJ45 LAN Port (LAN1)

44 : Top: USB 3.2 Gen1 Port (USB3H_2) Bottom: USB 3.2 Gen2x2/DP Type-C Port (TC_U3D_1)

45 : Top: USB 3.2 Gen2 Port (USB3_1) Bottom: USB 3.2 Gen2x2/DP Type-C Port (TC_U3D_0)

46 : HDMI Ports (HDMI1_2)

Top: HDMI2
Bottom: HDMI1

47 : DC_JACK1

Back Side :

48 : M.2 Key-M Socket (M2_M2)

Pin	Signal Name	Signal Name	Pin
1	GND	+3.3V	2
3	GND	+3.3V	4
5	PERn3	NA	6
7	PERp3	NA	8
9	GND	LED	10
11	PETn3	+3.3V	12
13	PETp3	+3.3V	14
15	GND	+3.3V	16
17	PERn2	+3.3V	18
19	PERp2	NA	20
21	GND	NA	22
23	PETn2	NA	24
25	PETp2	NA	26
27	GND	NA	28
29	PERn1	NA	30
31	PERp1	NA	32
33	GND	NA	34
35	PETn1	NA	36
37	PETp1	NA	38
39	GND	NA	40
41	PERn0	NA	42
43	PERp0	NA	44
45	GND	NA	46
47	PETn0	NA	48
49	PETp0	PERST#	50
51	GND	CLKREQ#	52
53	PEFCLKn	NA	54
55	PEFCLKp	NA	56
57	GND	NA	58
67	NA	NA	68
69	PEDET	+3.3V	70
71	GND	+3.3V	72
73	GND	+3.3V	74
75	GND		

49 : ESPI Header (ESPI1)

Pin	Signal Name
1	GND
2	ESPI_CLK
3	GND
4	ESPI_CS#
5	ESPI_RESET#
6	GND
7	+3V
8	ESPI_CS1#
9	SMBus_CLK
10	SMBus_DATA
11	ESPI_IO0
12	ESPI_IO1
13	ESPI_IO2
14	ESPI_IO3
15	NA
16	+3VSB
17	Internal Use
18	NA
19	ESPI_ALERT#
20	GND

