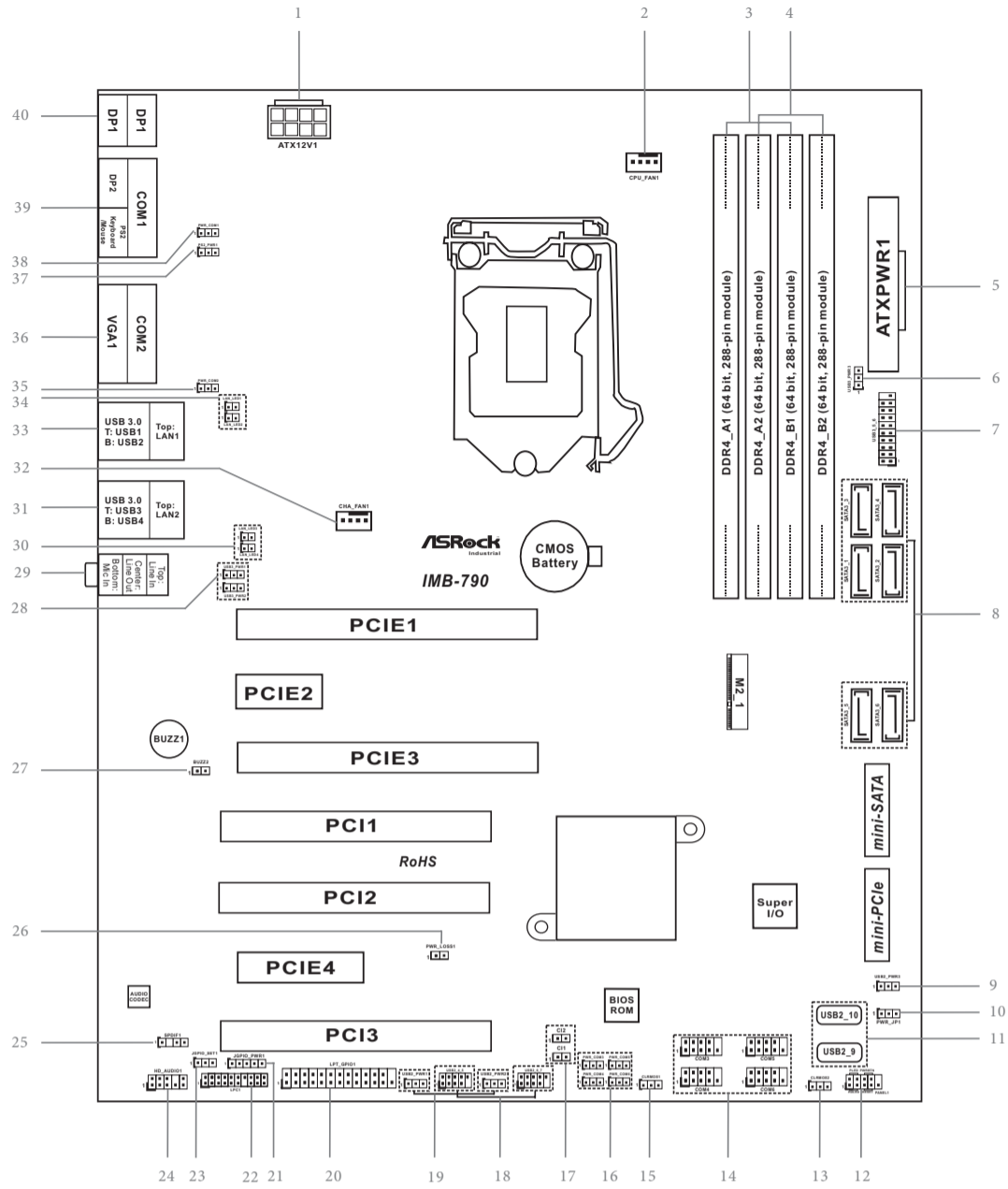




ASRock Jumpers and Headers Setting Guide

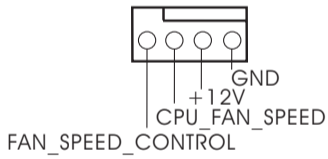
IMB-790



1 : ATX 12V Power Connector



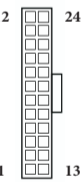
2 : CPU FAN Connector (+12V)



3 : DDR4 DIMM Slots (DDR4_A1, DDR4_B1)

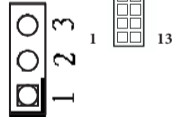
4 : DDR4 DIMM Slots (DDR4_A2, DDR4_B2)

5 : 24-pin ATX Power Input Connector



USB Power Setting Jumpers

6 : USB3_PWR3 (For USB3_5_6)



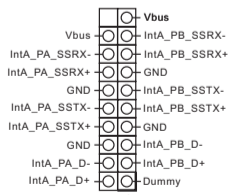
9 : USB2_PWR3 (For USB2_9, USB2_10)

19 : USB2_PWR1 (For USB2_4_5), USB2_PWR2 (For USB2_6_7)



28 : USB3_PWR1 (For USB3_1_2), USB3_PWR2 (For USB3_3_4)

1-2 : +5V
2-3 : +5VSB

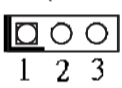


7 : USB 3.0 Header (USB3_5_6)

8 : SATA3 Connectors (SATA3_1 ~ SATA3_6)

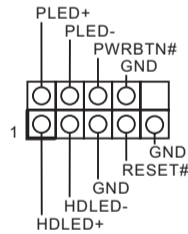
10 : ATX/AT Mode Jumper (PWR_JP1)

1-2 : AT Mode
2-3 : ATX Mode



11 : Vertical Type A USB 2.0 Ports (USB2_9, USB2_10)

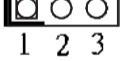
12 : System Panel Header



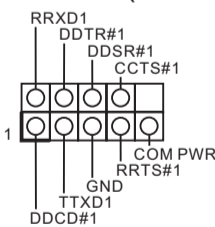
Clear CMOS Headers

13 : CLRMOS2
15 : CLRMOS1

1-2 : Normal
2-3 : Clear CMOS



14 : COM Port Headers (COM3, 4, 5, 6) (RS232)

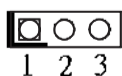


COM Port Pin9 PWR Setting Jumpers

16 : PWR_COM3 (For COM Port3)
PWR_COM4 (For COM Port4)
PWR_COM5 (For COM Port5)
PWR_COM6 (For COM Port6)

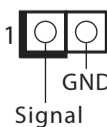
35 : PWR_COM2 (For COM Port2)
38 : PWR_COM1 (For COM Port1)

1-2 : +5V
2-3 : +12V

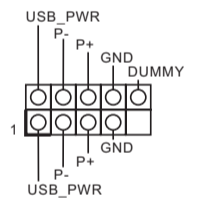


17 : Chassis Intrusion Headers (CI1, CI2)

Short : Active Case Open
Open : Normal

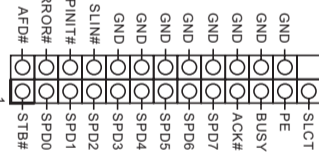


18 : USB 2.0 Headers (USB2_4_5, USB2_6_7)



20 : Printer Port / GPIO Header (LPT_GPIO1)

Printer Port:



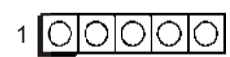
GPIO:

Pin	Signal Name	Pin	Signal Name
2	SI0_GP46	1	SI0_GP47
4	SI0_GP45	3	SI0_GP42
6	SI0_GP44	5	SI0_GP41
8	SI0_GP43	7	SI0_GP40
10	JGPIO_PWR	9	SI0_GP37
12	JGPIO_WR	11	SI0_GP36
14	GND	13	SI0_GP35
16	GND	15	SI0_GP34
18	GND	17	SI0_GP33
20	GND	19	SI0_GP32
22	GND	21	SI0_GP31
24	GND	23	SI0_GP30
26	NC	25	NA

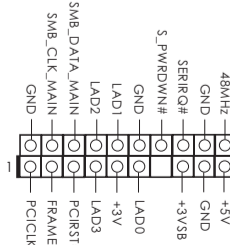
* If you want to use the printer port function, please short pin4 and pin5 on Digital Input / Output Power Select (JGPIO_PWR1).

21 : Digital Input / Output Power Select (JGPIO_PWR) (JGPIO_PWR1)

1-2 : +12V
2-3 : +5V
3-4 : +5V
4-5 : GND

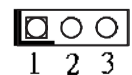


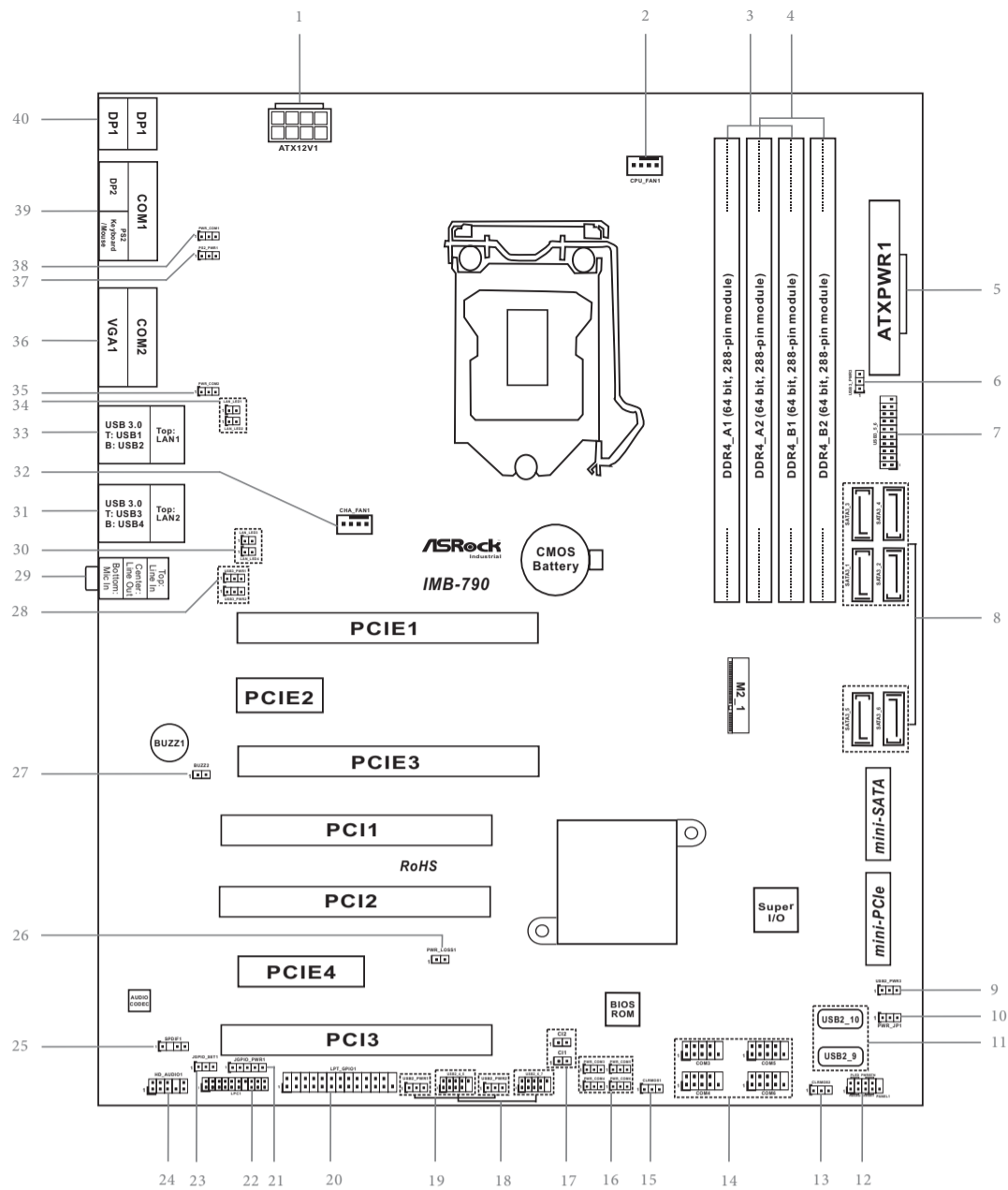
22 : LPC Header



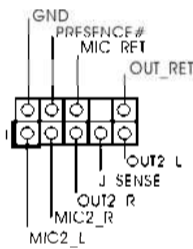
23 : Digital Input / Output Power Select (JGPIO_SET1)

1-2 : +5V
2-3 : GND

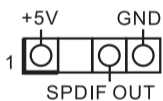




24 : Front Panel Audio Header

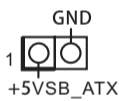


25 : SPDIF Header



26 : PWR LOSS Header (PWR_LOSS1)

Short : Power Loss
Close : no Power Loss



27 : Buzzer (BUZZ2)



29 : Audio Jacks

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

LAN LED Headers (LAN_LED1 ~ 4)



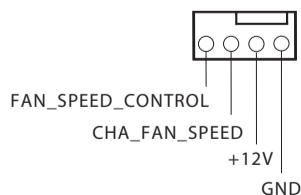
30 : LAN2 Speed LED Header (LAN_LED4),
LAN2 ACT/LINK LED Header (LAN_LED3)

34 : LAN1 Speed LED Header (LAN_LED2),
LAN1 ACT/LINK LED Header (LAN_LED1)

31 : Top : RJ45 LAN Port (LAN2)

Bottom : USB 3.0 Ports (USB3_3_4)

32 : Chassis FAN Connector (+12V)



33 : Top : RJ45 LAN Port (LAN1)

Bottom : USB 3.0 Ports (USB3_1_2)

36 : Top : COM Port (COM2)

(RS232/422/485)*

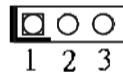
Bottom : VGA Port (VGA1)

37 : PS2 Power Setting Jumper

(PS2_PWR1 (For PS2 Keyboard/Mouse))

1-2 : +5V

2-3 : +5VSB



39 : Top : COM Port (COM1)

(RS232/422/485)*

Bottom Left : DisplayPort (DP2)

Bottom Right : PS/2 Keyboard/Mouse Port

* 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, Data Carrier Detect	TX-	RTX-
2	RXD, Receive Data	RX+	N/A
3	TXD, Transmit Data	TX+	RTX+
4	DTR, Data Terminal Ready	RX-	N/A
5	GND	GND	GND
6	DSR, Data Set Ready	N/A	N/A
7	RTS, Request To Send	N/A	N/A
8	CTS, Clear To Send	N/A	N/A
9	No Power/5V/12V	N/A	N/A

40 : DisplayPorts (DP1)