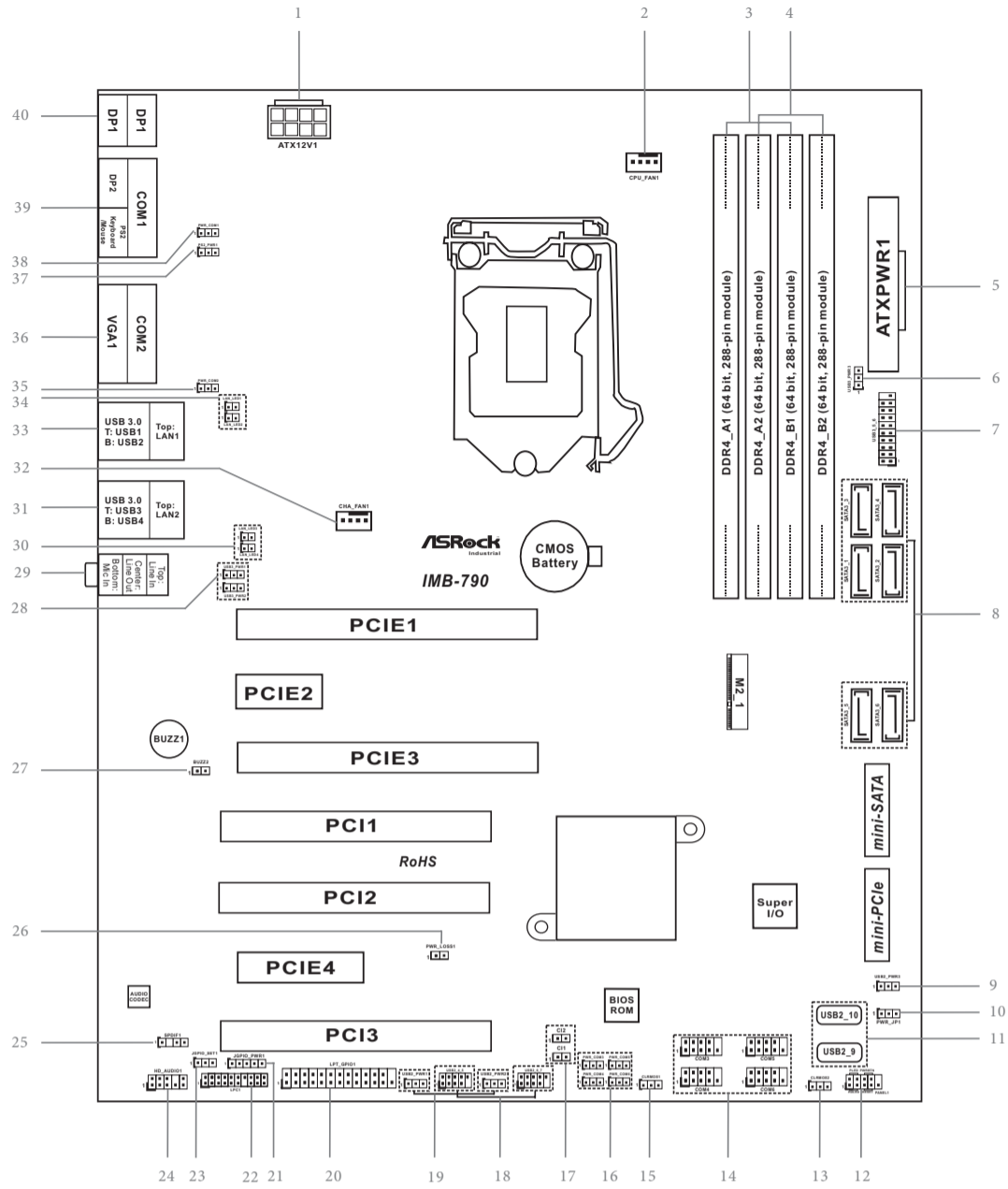


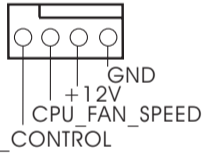


# ASRock Jumpers and Headers Setting Guide

## 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)

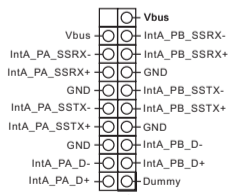
19 : USB2\_PWR1 (For USB2\_4\_5),

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



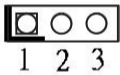
7 : USB 3.0 Header (USB3\_5\_6)

8 : SATA3 Connectors (SATA3\_1 ~ SATA3\_6)

10 : ATX/AT Mode Jumper (PWR\_JP1)

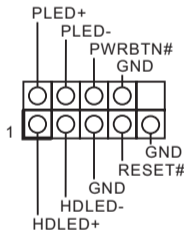
1-2 : AT Mode

2-3 : ATX Mode



11 : Vertical Type A USB 2.0 Ports (USB2\_9, USB2\_10)

12 : System Panel Header



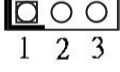
Clear CMOS Headers

13 : CLRMOS2

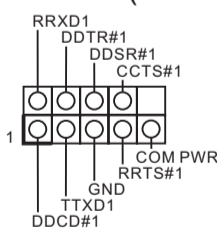
15 : CLRMOS1

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)

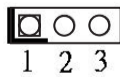
PWR\_COM6 (For COM Port6)

35 : PWR\_COM2 (For COM Port2)

38 : PWR\_COM1 (For COM Port1)

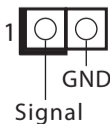
1-2 : +5V

2-3 : +12V

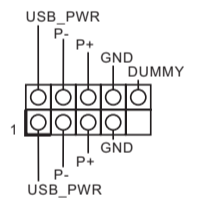


17 : Chassis Intrusion Headers (CI1, CI2)

Short : Active Case Open  
Open : Normal

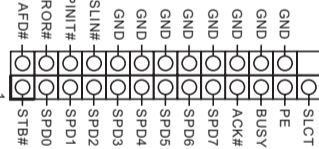


18 : USB 2.0 Headers (USB2\_4\_5, USB2\_6\_7)



20 : Printer Port / GPIO Header (LPT\_GPIO1)

Printer Port:



GPIO:

Pin	Signal Name	Pin	Signal Name
2	NC	25	NA
3	NC	26	NC
4	NC	27	NC
5	NC	28	NC
6	NC	29	NC
7	NC	30	NC
8	NC	31	NC
9	NC	32	NC
10	NC	33	NC
11	NC	34	NC
12	NC	35	NC
13	NC	36	NC
14	NC	37	NC
15	NC	38	NC
16	NC	39	NC
17	NC	40	NC
18	NC	41	NC
19	NC	42	NC
20	NC	43	NC
21	NC	44	NC
22	NC	45	NC
23	NC	46	NC
24	NC	47	NC
25	NC	48	NC
26	NC	49	NC
27	NC	50	NC
28	NC	51	NC
29	NC	52	NC
30	NC	53	NC
31	NC	54	NC
32	NC	55	NC
33	NC	56	NC
34	NC	57	NC
35	NC	58	NC
36	NC	59	NC
37	NC	60	NC
38	NC	61	NC
39	NC	62	NC
40	NC	63	NC
41	NC	64	NC
42	NC	65	NC
43	NC	66	NC
44	NC	67	NC
45	NC	68	NC
46	NC	69	NC
47	NC	70	NC
48	NC	71	NC
49	NC	72	NC
50	NC	73	NC
51	NC	74	NC
52	NC	75	NC
53	NC	76	NC
54	NC	77	NC
55	NC	78	NC
56	NC	79	NC
57	NC	80	NC
58	NC	81	NC
59	NC	82	NC
60	NC	83	NC
61	NC	84	NC
62	NC	85	NC
63	NC	86	NC
64	NC	87	NC
65	NC	88	NC
66	NC	89	NC
67	NC	90	NC
68	NC	91	NC
69	NC	92	NC
70	NC	93	NC
71	NC	94	NC
72	NC	95	NC
73	NC	96	NC
74	NC	97	NC
75	NC	98	NC
76	NC	99	NC
77	NC	100	NC

\* 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\_PWR1) (JGPIO\_PWR1)

1-2 : +12V

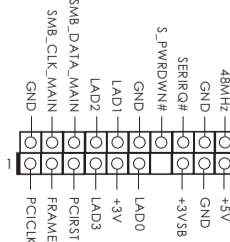
2-3 : +5V

3-4 : +5V

4-5 : GND



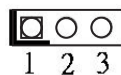
22 : LPC Header

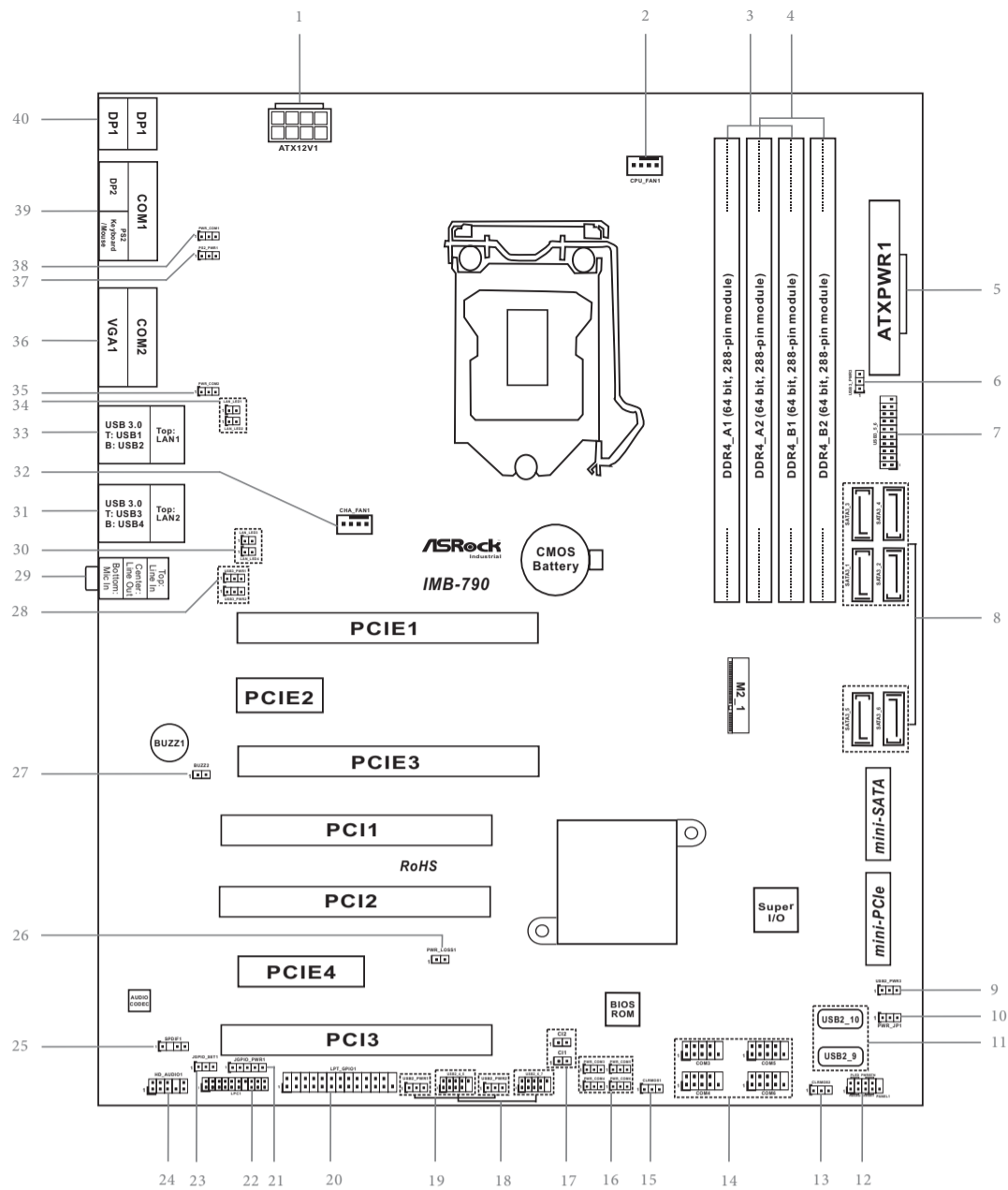


23 : Digital Input / Output Power Select (JGPIO\_SET1) (JGPIO\_SET1)

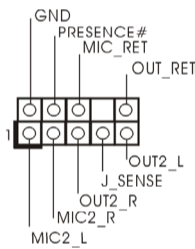
1-2 : +5V

2-3 : GND

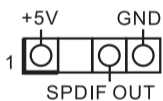




**24 : Front Panel Audio Header**

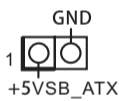


**25 : SPDIF Header**



**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

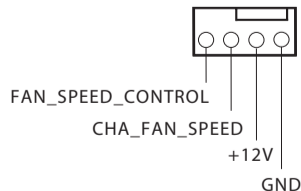
**LAN LED Headers (LAN\_LED1 ~ 4)**

**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))**



**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)**