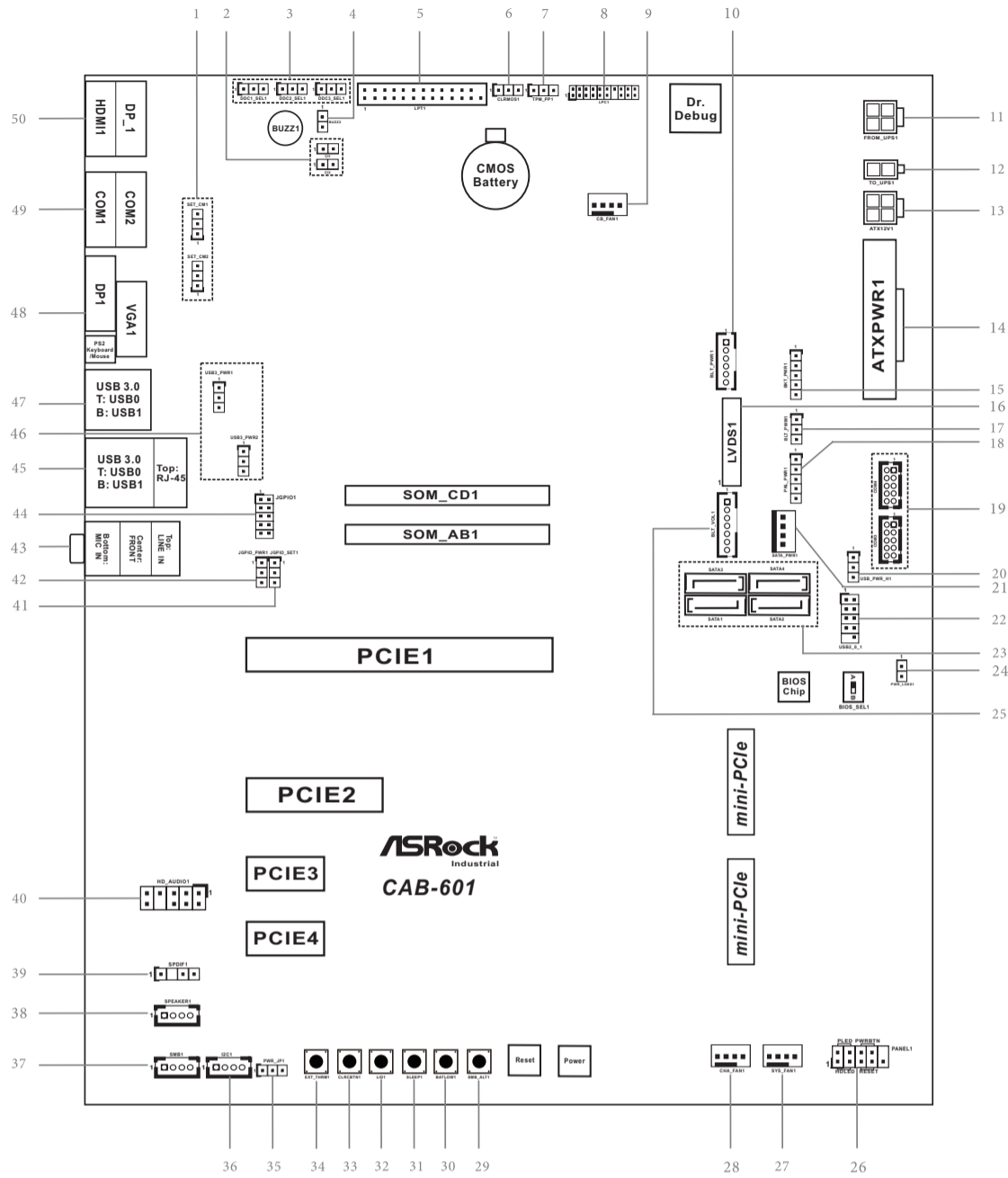


# ASRock® Jumpers and Headers Setting Guide

## CAB-601

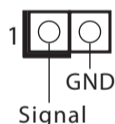
The terms HDMI™ and HDMI High-Definition Multimedia Interface, and the HDMI logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.



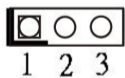
1 : COM1, 2 PWR Setting Jumpers  
1-2: +5V  
2-3: +12V



2 : Chassis Intrusion Headers (CI1, CI2)  
Close: Active Case Open  
Open: Normal



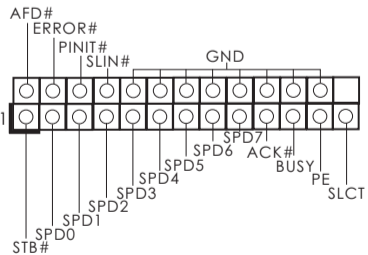
3 : DDC1\_SEL1, DDC2\_SEL1, DDC3\_SEL1  
1-2: HDMI  
2-3: DisplayPort



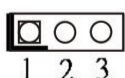
4 : Buzzer



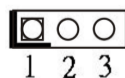
5 : Printer Port Header



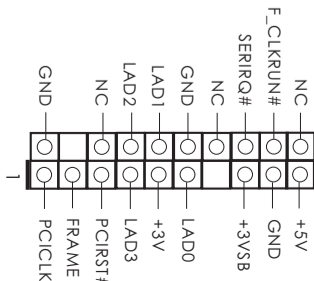
6 : Clear CMOS Header  
1-2: Normal  
2-3: Clear CMOS



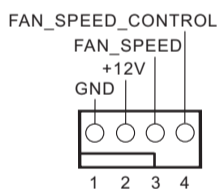
7 : TPM\_PP1  
1-2: Enable Module TPM  
2-3: Enable CB TPM



8 : LPC Header



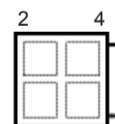
9 : 4-Pin CB FAN Connector (+12V)



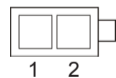
10 : Backlight Power Connector (BLT\_PWR1)

PIN	Signal Name
1	GND
2	GND
3	BL CTL
4	BL EN
5	LCD_BLT_VCC
6	LCD_BLT_VCC

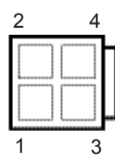
11 : 4-pin UPS Module Power Output Connector



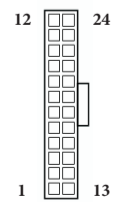
12 : 2-pin UPS Module Power Input Connector



13 : 4-pin ATX Power Input/Output Connector  
1-2: GND  
3-4: DC Input



14 : 24-pin ATX Power Connector

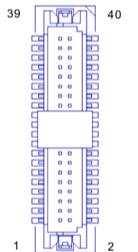


15 : Backlight Power Select (LCD\_BLT\_VCC) (BKT\_PWR1)  
1-2: LCD\_BLT\_VCC: +5V  
2-3: LCD\_BLT\_VCC: +12V  
4-5: LCD\_BLT\_VCC: DC\_IN



16 : LVDS Panel Connector

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



17 : Backlight Control Level (BLT\_PWM1) (CON\_LBKL\_CTL)  
1-2: +3.3V  
2-3: +5V

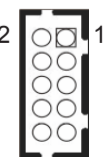


18 : Panel Power Select (LCD\_VCC) (PNL\_PWR1)  
1-2: LVDD: +3V  
2-3: LVDD: +5V  
4-5: LVDD: +12V



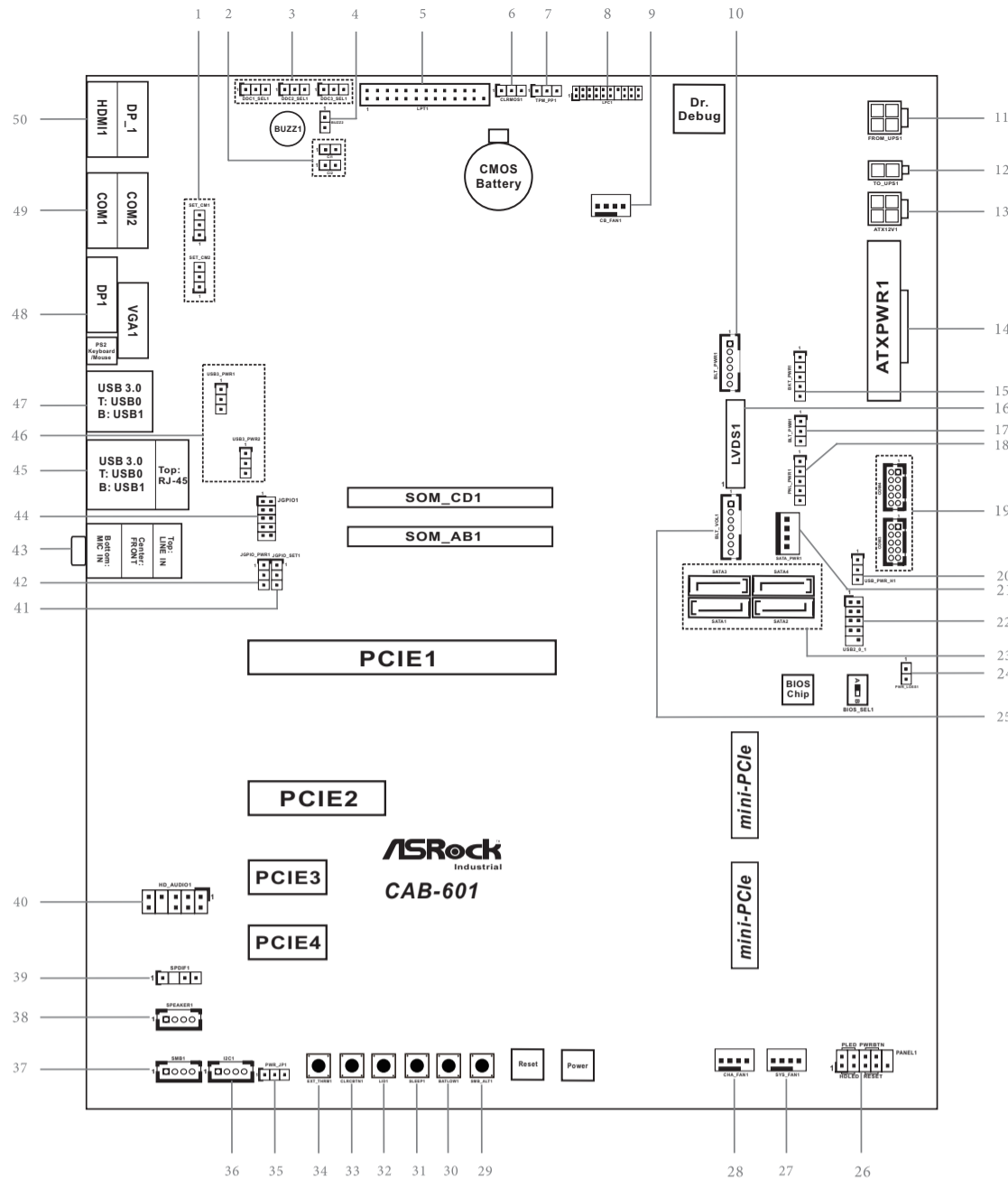
19 : COM3, 4 Headers (RS232)

PIN	Signal Name	PIN	Signal Name
2	RXD	1	N/C
4	N/C	3	TXD
6	N/C	5	N/C
8	N/C	7	N/C
10	N/C	9	N/C

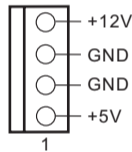


20 : USB2.0 Switch Header (for USB2\_0\_1)  
1-2: +5V  
2-3: +5VSB

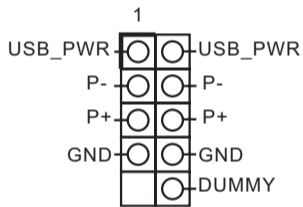




21 : SATA Power Output Connector



22 : USB2.0 Header (USB2\_0\_1)



23 : SATA2 Connectors (SATA1, SATA2, SATA3, SATA4)



24 : Power Loss Jumper  
Open: No Dummy Low  
Close: +5VSB\_ATX Dummy Low

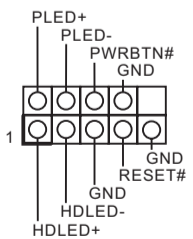


25 : Backlight Volume Control (BLT\_VOL1)

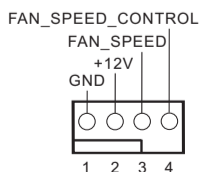


PIN	Signal Name
1	GPIO_VOL_UP
2	GPIO_VOL_DW
3	PWRDN
4	LVDS1 BLUP
5	LVDS1 BLDW
6	GND
7	GND

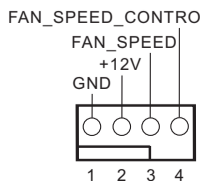
26 : System Panel Header



27 : 4-Pin System FAN Connector (+12V)

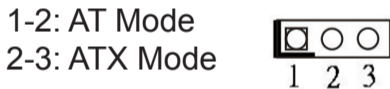


28 : 4-Pin Chassis FAN Connector (+12V)



- 29 : System Management Bus Alert Button
- 30 : Battery Low Button
- 31 : S3 Sleep Button
- 32 : Enter S3 Sleep / Screen Sleep Button
- 33 : Clear CMOS Button
- 34 : CPU PRCHOT# Button

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



36 : I2C1



PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	+3VSB	2	I2C_CK	3	I2C_DAT	4	GND

37 : SMB1



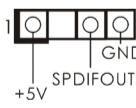
PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	+3VSB	2	SMB_CLK	3	SMB_DATA	4	GND

38 : 3W Audio AMP Output Wafer

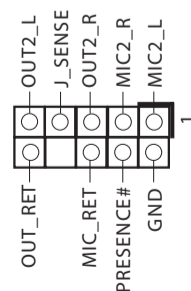


PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
1	SPK L-	2	SPK L+	3	SPK R+	4	SPK R-

39 : HDMI\_SPDIF Header



40 : Front Panel Audio Header



41 : Digital Input / Output Default Value Setting (JGPIO\_SET1)  
1-2: Pull-High (+3V)  
2-3: Pull-Low



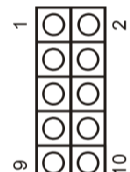
42 : Digital Input / Output Power Select (JGPIO\_PWR1)



43 : Audio Jacks  
Blue - Line In  
Green - Line Out  
Pink - Mic In

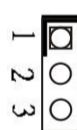
44 : Digital Input / Output Pin Header

PIN	Signal Name	PIN	Signal Name
1	NCT5606_GP10	2	NCT5606_GP20
3	NCT5606_GP11	4	NCT5606_GP21
5	NCT5606_GP12	6	NCT5606_GP22
7	NCT5606_GP13	8	NCT5606_GP23
9	GND	10	JGPIO_PWR



45 : Top: RJ45 LAN Port  
Bottom: USB3.0 Ports (USB3\_0\_1)

46 : USB3.0 Switch Headers  
USB3\_PWR1: for USB3\_0\_1  
USB3\_PWR2: for USB3\_01  
1-2: +5V  
2-3: +5VSB



47 : USB3.0 Ports (USB3\_01)

48 : Top: VGA/D-Sub Port  
Bottom Left: DisplayPort  
Bottom Right: PS2 Keyboard/Mouse Port  
49 : Top: COM Port 2 (RS232/422/485)\*  
Bottom: COM Port 1 (RS232/422/485)\*

\* 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	+5V	+5V	+5V
10	+12V	+12V	+12V

50 : Top: DisplayPort  
Bottom: HDMI Port