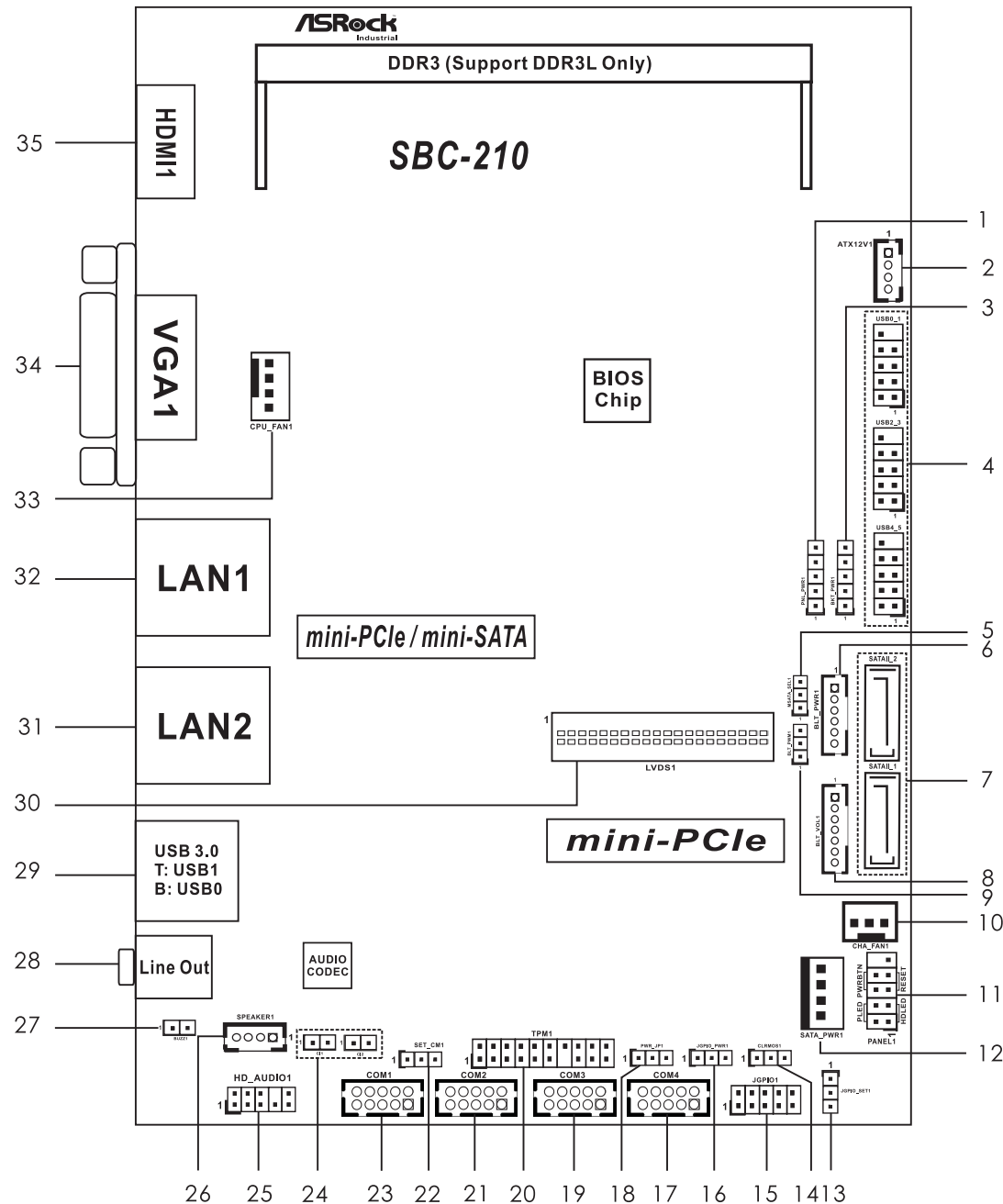


ASRock
—Industrial—
SBC-210

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Jumpers and Headers Setting Guide



- 1 : Panel Power Selection (LCD_VCC) (PNL_PWR1)
1-2 : +3V
2-3 : +5V
3-4 : +5V
4-5 : +12V

- 2 : ATX Power Connector (Input 9V-36V)
1-4 : GND
2-3 : DC Input

- 3 : Backlight Power Selection (LCD_BLT_VCC) (BKT_PWR1)
1-2 : +5V
2-3 : +12V
3-4 : +12V
4-5 : DC_IN Power

- 4 : USB2.0 Headers (USB0_1, USB2_3, USB4_5)
- | PIN | Signal Name | PIN | Signal Name |
|-----|-------------|-----|-------------|
| 1 | DUMMY | 2 | GND |
| 3 | +B | 4 | +A |
| 5 | -B | 6 | -A |
| 7 | USB_PWR | 8 | USB_PWR |

- 5 : mSATA Selection
1-2 : SATAII_2 + mini-PCle
2-3 : mSATA, SATAII_2 no function

- 6 : Inverter Power Control Wafer (BLT_PWR1)
- | PIN | Signal Name |
|-----|---------------|
| 1 | GND |
| 2 | GND |
| 3 | CON_LBKLT_CTL |
| 4 | CON_LBKLT_EN |
| 5 | LCD_BLT_VCC |
| 6 | LCD_BLT_VCC |

- 7 : SATA2 Connectors (SATAII_1, SATAII_2)
- 8 : Backlight & Amp Volume Control (BLT_VOL1)
- | PIN | Signal Name |
|-----|-------------|
| 1 | GPIO_VOL_UP |
| 2 | GPIO_VOL_DW |
| 3 | PWRDN |
| 4 | GPIO_BLT_UP |
| 5 | GPIO_BLT_DW |
| 6 | GND |
| 7 | GND |

- 9 : Backlight Control Level (BLT_PWM1)
1-2 : +3V
2-3 : +5V

- 10 : 3-Pin Chassis FAN Connector (+12V)
- | PIN | Signal Name |
|-----|---------------|
| 1 | GND |
| 2 | +12V |
| 3 | CHA_FAN_SPEED |

- 11 : System Panel Header
- | PIN | Signal Name |
|-----|-------------|
| 1 | GND |
| 2 | RESET# |
| 3 | PWRBTN# |
| 4 | GND |
| 5 | PLED- |
| 6 | HDLED- |
| 7 | PLED+ |
| 8 | HDLED+ |

- 12 : SATA Power Output Connector
- | PIN | Signal Name |
|-----|-------------|
| 1 | +12V |
| 2 | GND |
| 3 | GND |
| 4 | +5V |

- 13 : GPIO Default Setting
1-2 : Pull-High
2-3 : Pull-Low

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

- 15 : Digital Input / Output Pin Header
- | PIN | Signal Name | PIN | Signal Name |
|-----|-------------|-----|-------------|
| 1 | SIO_GP24 | 2 | SIO_GP20 |
| 3 | SIO_GP25 | 4 | SIO_GP21 |
| 5 | SIO_GP26 | 6 | SIO_GP22 |
| 7 | SIO_GP27 | 8 | SIO_GP23 |
| 9 | JGPIO_PWR | 10 | GND |

- 16 : Digital Input / Output Power select
1-2 : +12V
2-3 : +5V

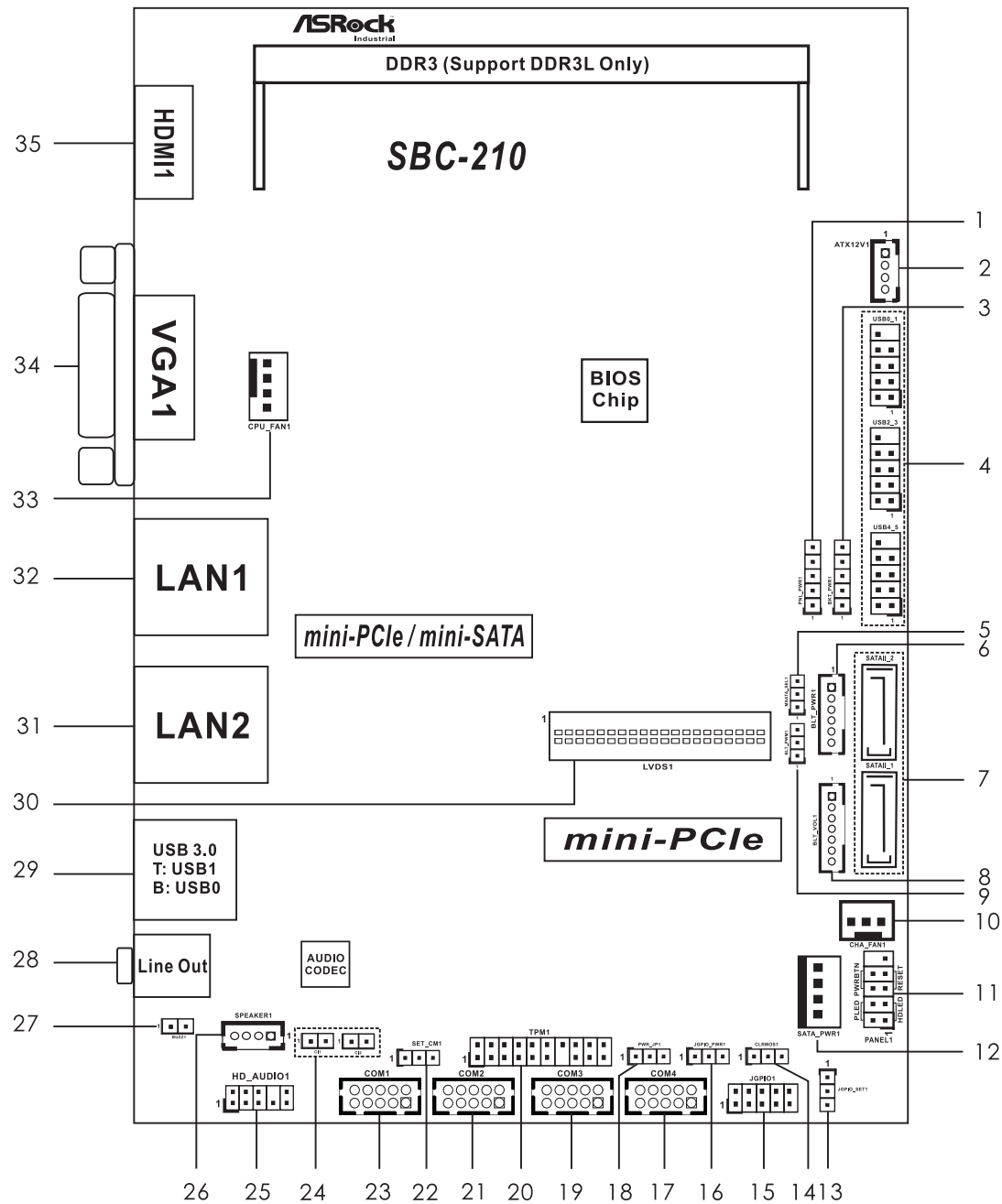
- COM1, 2, 3, 4 Headers
17 : COM4
19 : COM3
21 : COM2
23 : COM1

PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name	PIN	Signal Name
10	DUMMY	8	CCTS#	6	DDSR#	4	DDTR#	2	RRXD
9	DUMMY	7	RRTS#	5	GND	3	TTXD	1	DDCD#

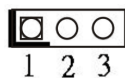
* This motherboard supports RS232/422/485 on COM1 port. Please refer to below table for the pin definition. In addition, COM1 port (RS232/422/485) can be adjusted in BIOS setup utility > Advanced Screen > Super IO Configuration. You may refer to page 29 of our user manual for details.

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	NA/+5V/+12V	N/A	N/A



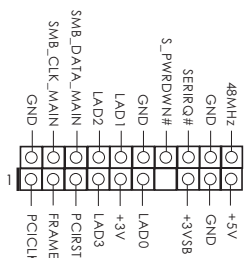
18 : ATX/AT Mode Selection
 1-2 : AT mode
 2-3 : ATX mode



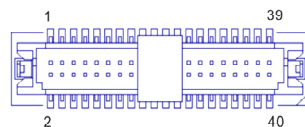
28 : Audio Jack (Green - Line Out)
 29 : USB3.0 Ports (USB3_01)

* The thermal solution of whole system needs to be designed additionally.

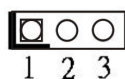
20 : TPM Header



30 : LVDS Panel Connector



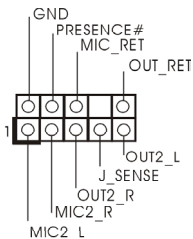
22 : COM1 Pin9 PWR Setting
 1-2 : +5V
 2-3 : +12V



24 : Chassis Intrusion Headers
 CI1 :
 Short : Active Case Open
 Open : Normal
 CI2 :
 Short : Normal
 Open : Active Case Open



25 : Front Panel Audio Header



PIN	Signal Name	PIN	Signal Name
1	LCD_VCC	2	LCD_VCC
3	+3V	4	N/A
5	N/A	6	LVDS_A_DATA0#
7	LVDS_A_DATA0	8	GND1
9	LVDS_A_DATA1#	10	LVDS_A_DATA1
11	GND6	12	LVDS_A_DATA2#
13	LVDS_A_DATA2	14	GND2
15	LVDS_A_DATA3#	16	LVDS_A_DATA3
17	GND7	18	LVDS_A_CLK#
19	LVDS_A_CLK	20	GND3
21	LVDS_B_DATA0#	22	LVDS_B_DATA0
23	GND8	24	LVDS_B_DATA1#
25	LVDS_B_DATA1	26	GND4
27	LVDS_B_DATA2#	28	LVDS_B_DATA2
29	DPLVDD_EN	30	LVDS_B_DATA3#
31	LVDS_B_DATA3	32	GND5
33	LVDS_B_CLK#	34	LVDS_B_CLK
35	GND9	36	CON_LBKLT_EN
37	CON_LBKLT_CTR	38	LCD_BLT_VCC
39	LCD_BLT_VCC	40	LCD_BLT_VCC

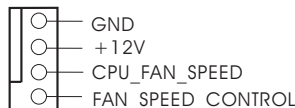
31 : RJ45 LAN Port 2
 32 : RJ45 LAN Port 1

26 : 3W Audio AMP Output Wafer

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



33 : 4-Pin CPU FAN Connector (+12V)



34 : VGA Port
 35 : HDMI Port

27 : 2-Pin Buzzer Header
 1 : SPKR
 +5V

