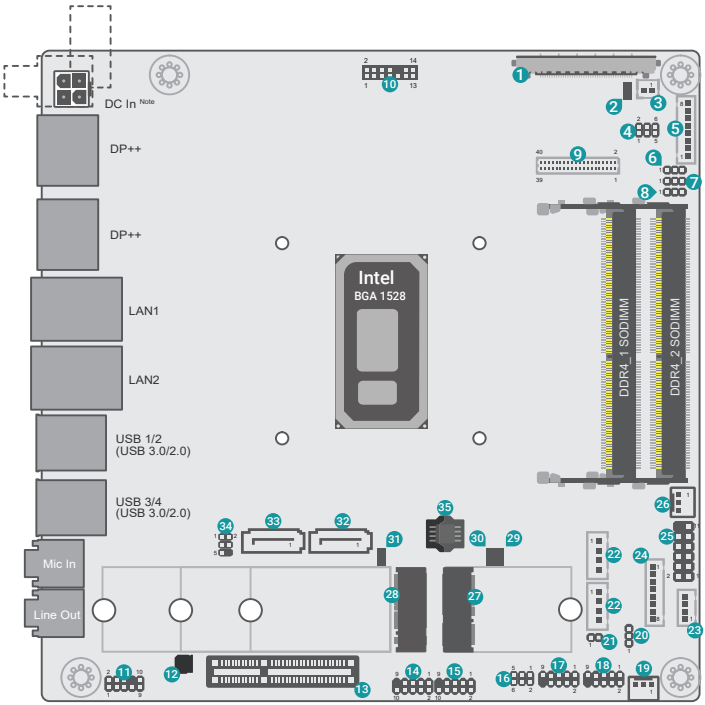
Board Layout



1. V-by-One HS (Optional)
2. LED4
3. Battery
4. JP4
5. LVDS Inverter Power
6. JP1
7. JP5
8. JP3
9. LVDS
10. LPC
11. Front Audio
12. Buzzer
13. PCIE1 (PCIe x4)
14. USB 7/8 (USB 2.0)
15. USB 5/6 (USB 2.0)
16. JP2
17. COM1
18. COM2
19. SYS FAN
20. JP6
21. Chassis Intrusion
22. SATA Power
23. DIO Power
24. DIO
25. Front Panel
26. CPU FAN
27. M.2 E Key
28. M.2 M Key
29. LED2
30. LED1
31. LED3
32. SATA1
33. SATA0
34. SMBUS
35. SPI Flash BIOS

Note:
WL171 supports 12Vdc, whereas WL173 supports wide range 9~36Vdc. The default DC connector is 2-pin coaxial. 4-pin vertical and right-angle are optional.

Clear CMOS Data	JP1
Normal (default)	1-2 On
Clear CMOS Data	2-3 On

COM 1 RS232 Power	JP2
Standard RS232 (default)	1-3 & 2-4 On
RS232 with Power	3-5 & 4-6 On

LVDS Backlight Power	JP3
3.3V (default)	1-2 On
5V	2-3 On

LVDS Inverter Power	JP5
+12V (default)	1-2 On
5V	2-3 On

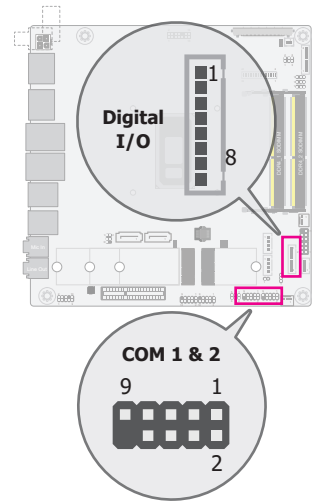
LVDS Panel Power	JP4
12V	1-2 On
5V	3-4 On
3V (default)	5-6 On

Auto Power-on Select	JP6
Via power button (default)	1-2 On
Via AC power	2-3 On

Pin Assignment

Digital I/O (DIO)

Pin	Function	Pin	Function
1	DIO_0	5	DIO_4
2	DIO_1	6	DIO_5
3	DIO_2	7	DIO_6
4	DIO_3	8	DIO_7



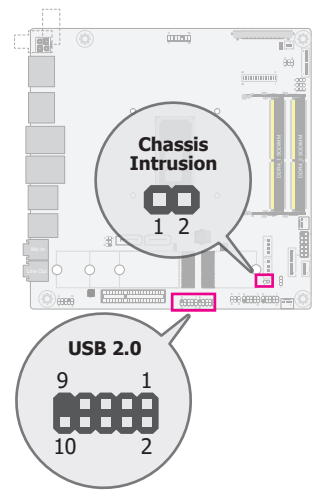
COM Ports (COM 1 & 2)

Pin	Standard RS232	RS232 with Power	RS422 Full Duplex	RS485
1	DCD-	12V	RX+	Data+
2	RD	RD	RX-	Data-
3	TD	TD	TX+	N.C.
4	DTR-	DTR-	TX-	N.C.
5	GND	GND	GND	GND
6	DSR-	DSR-	N.C.	N.C.
7	RTS-	RTS-	N.C.	N.C.
8	CTS-	CTS-	N.C.	N.C.
9	RI-	5V	N.C.	N.C.

Note:
COM 2 only supports Standard RS232.

Chassis Intrusion

Pin	Function	Pin	Function
1	Signal	2	GND

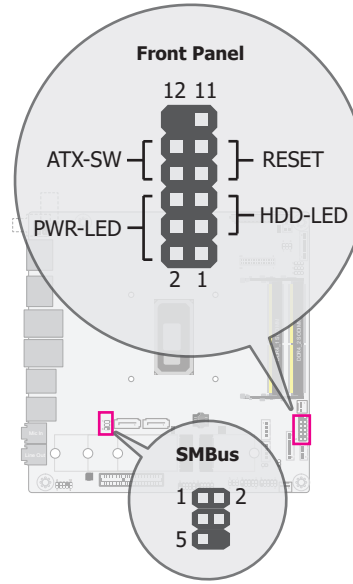


USB 2.0 Headers (USB 5/6, 7/8)

Pin	Assignment	Pin	Assignment
1	VCC	2	VCC
3	Data-	4	Data-
5	Data+	6	Data+
7	GND	8	GND
9	---	10	N.C.

Front Panel

	Pin	Assignment		Pin	Assignment
	1	N.C.	PWR-LED	2	LED Power
HDD-LED	3	HDD Power		4	LED Power
	5	Signal		6	Signal
RESET	7	Ground	ATX-SW	8	Ground
	9	Signal		10	Signal
	11	N.C.		12	---



SMBus

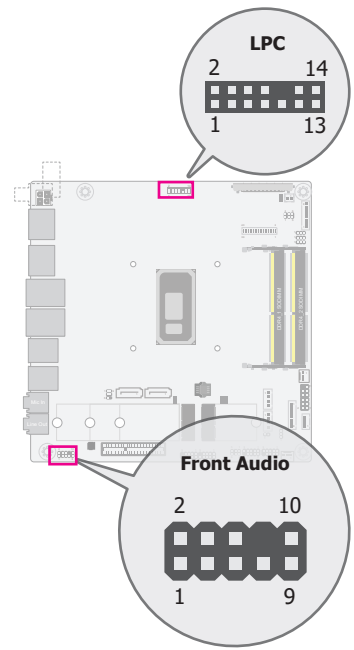
Pin	Assignment	Pin	Assignment
1	3V3SB	2	GND
3	SMB_CLK	4	SMB_DATA
5	SMB_ALERT	6	GND

LPC

Pin	Assignment	Pin	Assignment
1	L_CLK	2	L_AD1
3	L_RST#	4	L_AD0
5	L_FRAME#	6	3V3
7	L_AD3	8	GND
9	L_AD2	10	---
11	SERIRQ	12	GND
13	5VSB	14	5V

Front Audio

Pin	Assignment	Pin	Assignment
1	Mic2-L	2	GND
3	Mic2-R	4	N.C.
5	Line2-R	6	Mic2-JD
7	GND	8	---
9	Line2-L	10	Line2-JD

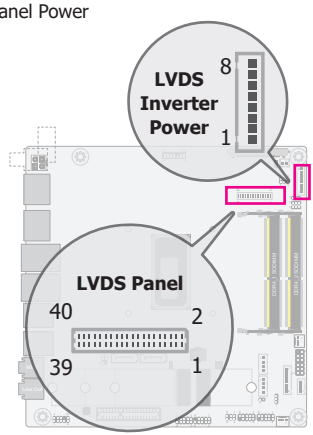


LVDS Panel

Pin	Assignment	Pin	Assignment
1	GND	2	GND
3	LVDS_A3+	4	LVDS_B3+
5	LVDS_A3-	6	LVDS_B3-
7	GND	8	GND
9	LVDS_A2+	10	LVDS_B2+
11	LVDS_A2-	12	LVDS_B2-
13	GND	14	GND
15	LVDS_A1+	16	LVDS_B1+
17	LVDS_A1-	18	LVDS_B1-
19	GND	20	GND
21	LVDS_A0+	22	LVDS_B0+
23	LVDS_A0-	24	LVDS_B0-
25	GND	26	GND
27	LVDS_CLK1+	28	LVDS_CLK2+
29	LVDS_CLK1-	30	LVDS_CLK2-
31	GND	32	GND
33	LVDS_DDC_CLK	34	NC
35	LVDS_DDC_DATA	36	+3.3V
37	Panel Power	38	Panel Power
39	Panel Power	40	Panel Power

LCD/Inverter Power

Pin	Assignment
1	GND
2	GND
3	Panel Inverter Brightness Voltage Control
4	Panel Power
5	+3.3V
6	Panel Backlight On/Off Control
7	12V (default) / 5V
8	12V (default) / 5V



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