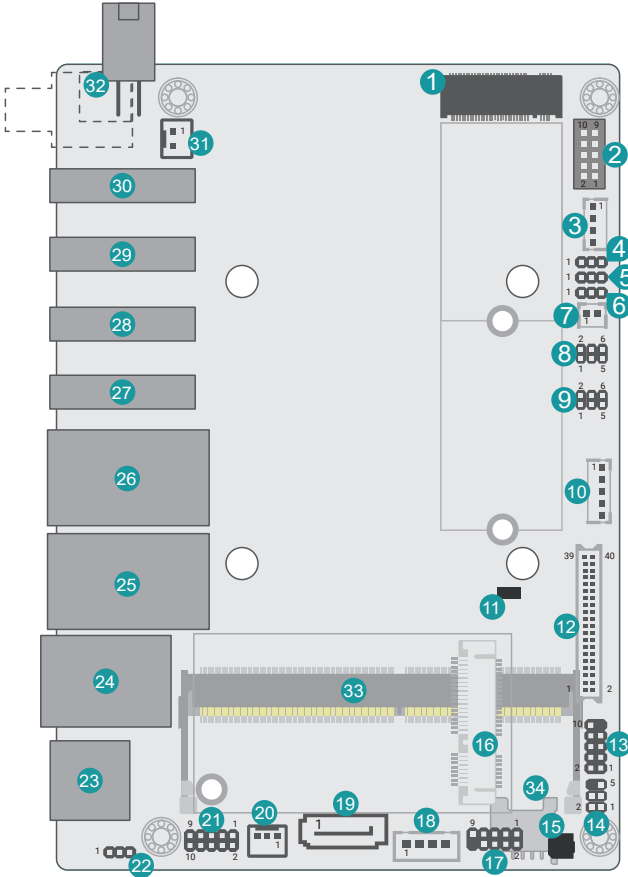


Board Layout



- 1 M.2 M Key
- 2 Front Audio
- 3 Speaker
- 4 JP9000
- 5 JP6
- 6 JP1
- 7 Battery
- 8 JP5
- 9 JP4
- 10 LVDS Backlight
- 11 LED1
- 12 LVDS
- 13 USB 0/3 (USB 2.0)
- 14 SMBus
- 15 Buzzer
- 16 Mini PCIe
- 17 COM1
- 18 SATA Power
- 19 SATA
- 20 CPU Fan
- 21 DIO
- 22 JP2
- 23 USB 5 (USB 2.0)
- 24 LAN3
- 25 LAN2, USB 3.0

- 31 Heater
- 32 12V DC-In
- 33 DDR4 (Bottom)
- 34 Nano SIM (Bottom)
- 26 LAN1, USB 3.0
- 27 DP4
- 28 DP3
- 29 DP2
- 30 DP1

Jumper Settings

8. Front Panel (JP5)

Pin	Assignment	Pin	Assignment
1	Power Button	2	Power LED VCC
3	GND	4	Power LED
5	System Reset	6	HDD LED

4. APU Power (JP9000)

Pin	Assignment
1	APU_VRM1_SCLK
2	APU_VRM1_SDATA
3	GND

22. Backlight Power Select (JP2)



1-2 On:
+3V3 (default)



2-3 On: +5V

5. AT/ATX Select (JP6)



1-2 On:
AT Mode (default)



2-3 On:
ATX Mode

9. Panel Power Select (JP4)



1-2 On: +12V



3-4 On: +5V



5-6 On: +3.3V (default)

6. Clear CMOS (JP1)



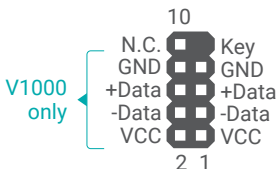
1-2 On: Normal (default)



2-3 On: Clear CMOS

Pin Assignments

13. USB 2.0 Ports

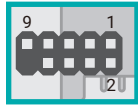


32. 12V DC-In



Pin	Assignment
1	GND
2	GND
3	+12V
4	+12V

17. COM1



Pin	RS232	RS422	RS485
1	DCD-	TXD-	Data-
2	RD	TXD+	Data+
3	TD	RXD+	N.C.
4	DTR-	RXD-	N.C.
5	GND	GND	GND
6	DSR-	N.C.	N.C.
7	RTS-	N.C.	N.C.
8	CTS-	N.C.	N.C.
9	RI-	N.C.	N.C.

3. Speaker



Pin	Assignment
1	SPK_Out_L+
2	SPK_Out_L-
3	SPK_Out_R-
4	SPK_Out_R+

20. CPU Fan



Pin	Assignment
1	Ground
2	Power (12V PWM)
3	Sense (Fan speed)

31. Heater



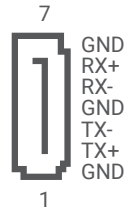
Pin	Assignment
1	12V
2	12VSB_PG_SW

2. Front Audio



Pin	Assignment	Pin	Assignment
1	Mic-L	2	GND
3	Mic-R	4	N.C.
5	Line-Out-R	6	Mic-JD (sense)
7	GND	8	N.C.
9	Line-Out-L	10	Line-JD (sense)

18. SATA



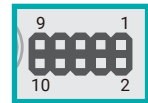
GND
RX+
RX-
GND
TX-
TX+
GND

19. SATA Power



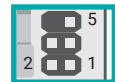
+5V
GND
GND
N.C.

21. DIO



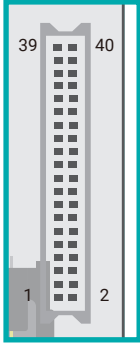
Pin	Assignment	Pin	Assignment
1	DIO_7	2	DIO_6
3	DIO_3	4	DIO_4
5	DIO_5	6	DIO_2
7	DIO_1	8	DIO_0
9	5VSB	10	GND

14. SMBus



Pin	Assignment	Pin	Assignment
1	3V3SB	2	GND
3	SMBus_Clock	4	SMBus_DATA
5	SMBus_Alert	6	---

12. LVDS



Pin	Assignment	Pin	Assignment
1	GND	2	GND
3	LVDSA_Out3+	4	LVDSB_Out3+
5	LVDSA_Out3-	6	LVDSB_Out3-
7	GND	8	GND
9	LVDSA_Out2+	10	LVDSB_Out2+
11	LVDSA_Out2-	12	LVDSB_Out2-
13	GND	14	GND
15	LVDSA_Out1+	16	LVDSB_Out1+
17	LVDSA_Out1-	18	LVDSB_Out1-
19	GND	20	GND
21	LVDSA_Out0+	22	LVDSB_Out0+
23	LVDSA_Out0-	24	LVDSB_Out0-
25	GND	26	GND
27	LVDSA_CLK1+	28	LVDSB_CLK1+
29	LVDSA_CLK1-	30	LVDSB_CLK1-
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

10. LVDS Backlight



Pin	Assignment	Pin	Assignment
1	+12V	4	PWM Brightness Control
2	GND	5	5V
3	Backlight On/Off		



DFI reserves the right to change the specifications at any time prior to the product's release. This QR may be based on editions that do not resemble your actual products. For more documentation and drivers, please visit the download page at go.dfi.com/GH551, or via the QR code to the right.

