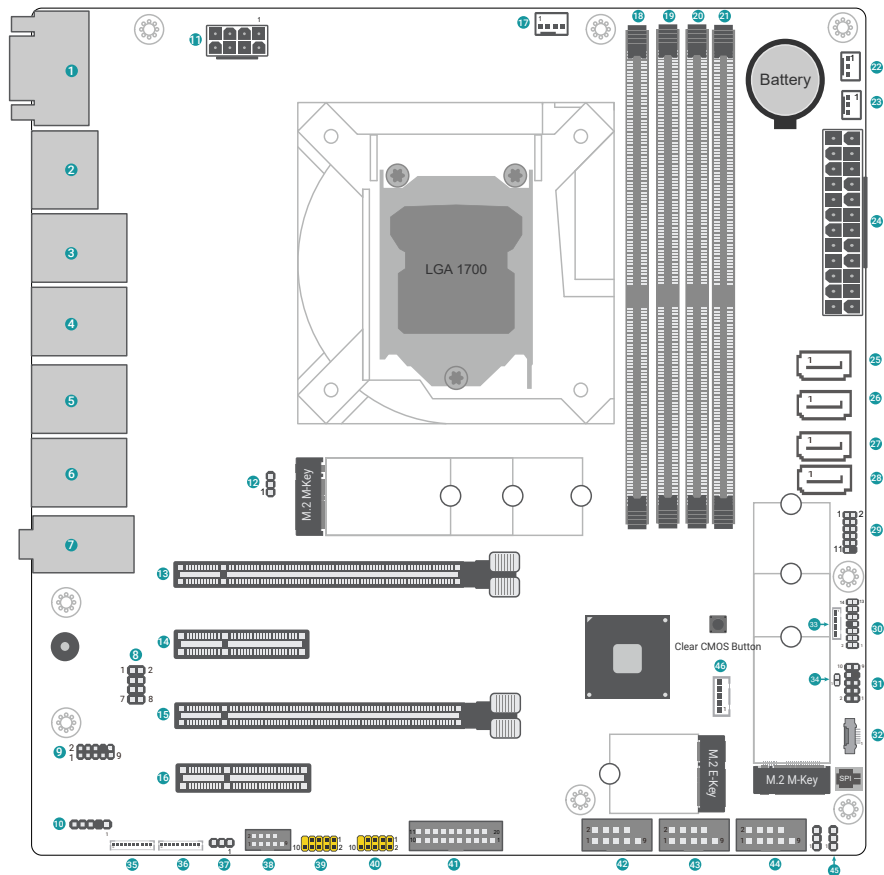


Board Layout

Top View



1	▲VGA ▼HDMI
2	▲DP1 ▼DP2
3	▲LAN1 ▼USB2_1/2 USB3_1/2
4	▲LAN2 ▼USB2_3/4 USB3_3/4
5	▲LAN3 ▼USB2_7/8 USB3_7/8
6	▲LAN4 ▼USB2_9/10 USB3_9/10
7	▲Line-Out ▼MIC-In
8	Front LAN LED
9	Front Audio
10	SPDIF
11	+12V Power
12	M2CN4 Power Select
13	PCIE1
14	PCIE2
15	PCIE3
16	PCIE4
17	CPU FAN
18	DIMM1

19	DIMM2
20	DIMM3
21	DIMM4
22	System Fan3
23	System Fan2
24	ATX Power
25	SATA0
26	SATA1
27	SATA2
28	SATA3
29	Front Panel
30	eSPI Header
31	PS2 Header
32	OOB SPI Header
33	SMBUS & I2C Header
34	Case Open
35	DIO
36	DIO
37	SYSTEM Fan1

38	COM1
39	USB2_11/12
40	USB2_13
41	USB3_5/6 USB2_5/6
42	COM2
43	COM3
44	COM4
45	M2CN3 Power Select
46	OOB I2C Header

Jumper Settings

12 M2CN4 Power Select	JP31
3V3 (default)	1-2 On
3V3DU	2-3 On

45 M2CN3 Power Select	JP32
3V3 (default)	1-2 On
3V3DU	2-3 On



PIN Assignment

37 ► System Fan1 (J7)

Pin	Assignment
1	GND
2	PWM
3	TACH

23 ► System Fan2 (J22)

Pin	Assignment
1	GND
2	PWM
3	TACH

22 ► System Fan3 (J30)

Pin	Assignment
1	GND
2	PWM
3	TACH

34 ► Case Open (SOJ1)

Pin	Assignment
1	Case Open#
2	GND

17 ► CPU Fan (J8)

Pin	Assignment
1	GND
2	12V
3	RPM
4	CTRL

10 ► S/PDIF (AUJ1)

Pin	Assignment
1	5V
2	---
3	SPDIF OUT
4	GND
5	SPDIF IN

25 ► SATA0 (J23)

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

26 ► SATA1 (J17)

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

27 ► SATA2 (J32)

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

28 ► SATA3 (J31)

Pin	Assignment
1	GND
2	TX+
3	TX-
4	GND
5	RX-
6	RX+
7	GND

32 ► OOB SPI Header (J38)

Pin	Assignment
1	EXT_SPI_SW
2	EXT_MOSI
3	EXT_MISO
4	EXT_CLK
5	EXT_CS0
6	GND
7	V_3P3_SPI

33 ► SMBus & I2C Connector (J37)

Pin	Assignment	Pin	Assignment
1	3V3DU	2	GND
3	SMB_CLK	4	SMB_DATA
5	SMB_ALERT	6	I2C_CLK
7	I2C_DATA	8	I2C_INT

46 ► OOB I2C Header (J39)

Pin	Assignment
1	NC
2	GND
3	SIO_SCL
4	SIO_SDA
5	NC

8 ► Front LAN LED (ETJ2)

Pin	Assignment	Pin	Assignment
1	LED_SPEED_2500#	2	LED_SPEED_1000#
3	GBE_LED_LINK_ACT#	4	3V3DU
5	LED_SPEED_2500#_2	6	LED_SPEED_1000#_2
7	GBE_LED_LINK_ACT#_2	8	3V3DU

38 ► COM1 (TSJ1)

Pin	Assignment	Pin	Assignment
1	MDCD1-/RS422_RX+ / RS485_D+	2	MSIN1-/RS422_RX- / RS485_D-
3	MSO1-/RS422_TX+	4	MDTR1-/RS422_TX-
5	GND	6	MDSR1-
7	MRTS-	8	MCTS1-
9	MRI-	10	----

42 ► COM2 (TSJ2)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-	10	----

43 ► COM3 (TSJ3)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-	10	----

44 ► COM4 (TSJ4)

Pin	Assignment	Pin	Assignment
1	MDCD-	2	MSIN-
3	MSO-	4	MDTR-
5	GND	6	MDSR-
7	MRTS-	8	MCTS-
9	MRI-	10	----

35 ► DIO (J34)

Pin	Assignment
1	DI_3
2	DI_2
3	DI_1
4	DI_0
5	DO_3
6	DO_2
7	DO_1
8	DO_0
9	5V
10	GND

36 ► DIO (J36)

Pin	Assignment
1	NC
2	NC
3	NC
4	NC
5	DO_7
6	DO_6
7	DO_5
8	DO_4
9	5V
10	GND

39 ► USB2_11/12 (UBJ2)

Pin	Assignment	Pin	Assignment
1	5VDU	2	5VDU
3	USB1N	4	USB2N
5	USB1P	6	USB2P
7	GND	8	GND
9	----	10	NC

40 ► USB2_13 (UBJ3)

Pin	Assignment	Pin	Assignment
1	5VDU	2	5VDU
3	USB1N	4	NC
5	USB1P	6	NC
7	GND	8	GND
9	----	10	NC

31 ► PS2 Header (SOJ2)

Pin	Assignment	Pin	Assignment
1	PS2_KCLK	2	PS2_MCLK
3	PS2_KDAT	4	PS2_MDAT
5	GND	6	GND
7	----	8	GND
9	5VDU	10	5VDU

29 ► Front Panel (J18)

Pin	Assignment	Pin	Assignment
1	NC	2	V_SUS_LED
3	3V3	4	V_SUS_LED
5	HDD_LED	6	SUS_LED
7	GND	8	GND
9	SYS_RST-	10	PWR_BTN-
11	NC	12	---

30 ► eSPI Header (J35)

Pin	Assignment	Pin	Assignment
1	3V3SB	2	ESPI_CLK
3	ESPI_RESET#	4	GND
5	ESPI_ALT#	6	GND
7	ESPI_D0	8	---
9	ESPI_D1	10	ESPI_CS
11	ESPI_D2	12	3V3SB
13	ESPI_D3	14	3V3SB

41 ► USB3_5/6 , USB2_5/6 (UBJ1)

Pin	Assignment	Pin	Assignment
1	5VDU	11	USB2_2P
2	USB3_RX1_DN	12	USB2_2N
3	USB3_RX1_DP	13	GND
4	GND	14	USB3_TX2_DP
5	USB3_TX1_DN	15	USB3_TX2_DN
6	USB3_TX1_DP	16	GND
7	GND	17	USB3_RX2_DP
8	USB2_1N	18	USB3_RX2_DN
9	USB2_1P	19	5VDU
10	NC	20	---

9 ► Front Audio (AUJ2)

Pin	Assignment	Pin	Assignment
1	MIC2_L	2	GND
3	MIC2_R	4	NC
5	LINE2_R	6	MIC2_JD
7	GND	8	---
9	LINE2_L	10	LINE2_JD



DFI reserves the right to change the specifications at any time prior to the product's release. This QR may be based on the product's revision. For more documentation and drivers, please visit the download page at www.dfi.com/downloadcenter, or via the QR codes to the right.

