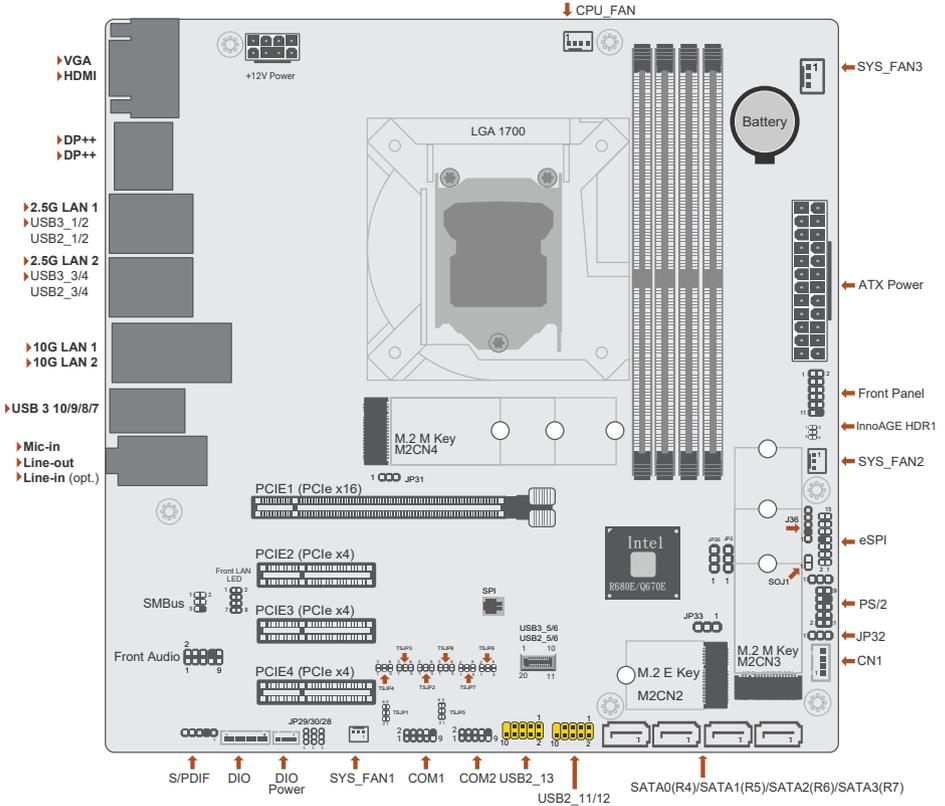


## Board Layout and Jumper Settings



Clear CMOS Data	JP5
Normal (default)	1-2 On
Clear CMOS Data	2-3 On

PS/2 and USB Wake up select	JP25
Control by BIOS (default)	1-2 On
Wake up disable	2-3 On

DIO power select(5V_DIO)	JP28
5VDU(default)	1-2 On
5V	2-3 On

DIO0~3 power select	JP29
5V_DIO(default)	1-2 On
GND	2-3 On

DIO4~7 power select	JP30
5V_DIO(default)	1-2 On
GND	2-3 On

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

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

M.2 E Key Power Select	JP33
3V3DU(default)	1-2 On
3V3	2-3 On

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

M.2 E Key Power Select	JP33
3V3DU(default)	1-2 On
3V3	2-3 On

Power Selection COM1	TSJP1
RS232 Standard (default)	1-3/2-4 On
RS232 with Power	3-5/4-6 On

Selection for COM1	TSJP2
RS232 (default)	1-3/2-4 On
RS422	3-5/4-6 On
RS485	3-5/2-4 On

Power Selection COM2	TSJP5
RS232 Standard (default)	1-3/2-4 On
RS232 with Power	3-5/4-6 On

Selection for COM1	TSJP3/TSJP4
RS232 (default)	1-3/2-4 On
RS422	3-5/4-6 On
RS485	3-5/4-6 On

Selection for COM2	TSJP6
RS232 (default)	1-3/4-6 On
RS422	3-5/4-6 On
RS485	3-5/4-6 On

Selection for COM2	TSJP7/TSJP8
RS232 (default)	1-3/2-4 On
RS422	3-5/4-6 On
RS485	3-5/4-6 On

# Pin Assignment

## J34 Digital I/O (DIO)

Pin	Function
1	DIO0
2	DIO1
3	DIO2
4	DIO3
5	DIO4
6	DIO5
7	DIO6
8	DIO7

## J33 Digital I/O (DIO) Power

Pin	Function
1	12V
2	GND
3	5VDU
4	5V

## J7 SYSTEM FAN1

Pin	Function
1	GND
2	PWM
3	TACH

## J22 SYSTEM FAN2

Pin	Function
1	GND
2	PWM
3	TACH

## J30 SYSTEM FAN3

Pin	Function
1	GND
2	PWM
3	TACH

## J8 CPU FAN

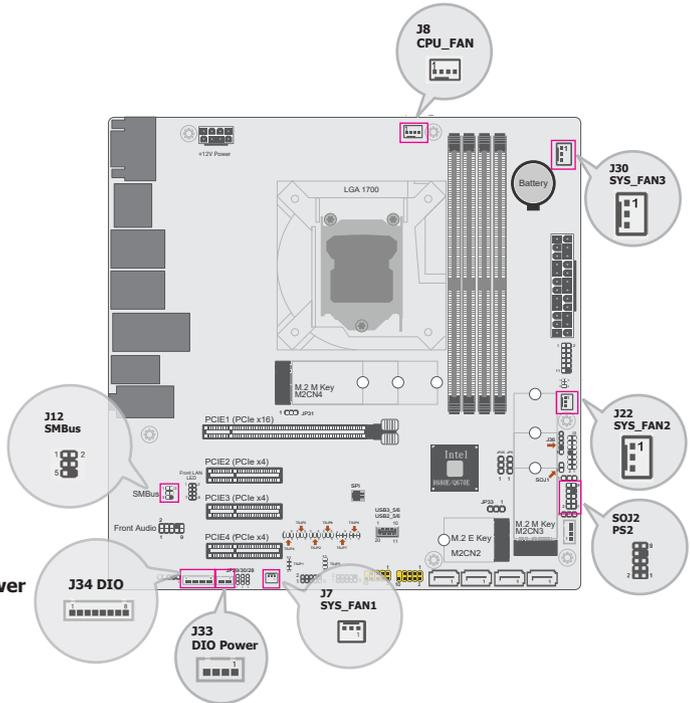
Pin	Function
1	GND
2	12V
3	RPM
4	CTRL

## J12 SMBus Header

Pin	Function	Pin	Function
1	3V3DU	2	GND
3	SMB_CLK	4	SMB_DATA
5	SMB_ALERT-		

## SOJ2 PS2

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



### TSJ1 COM1/ TSJ2 COM2

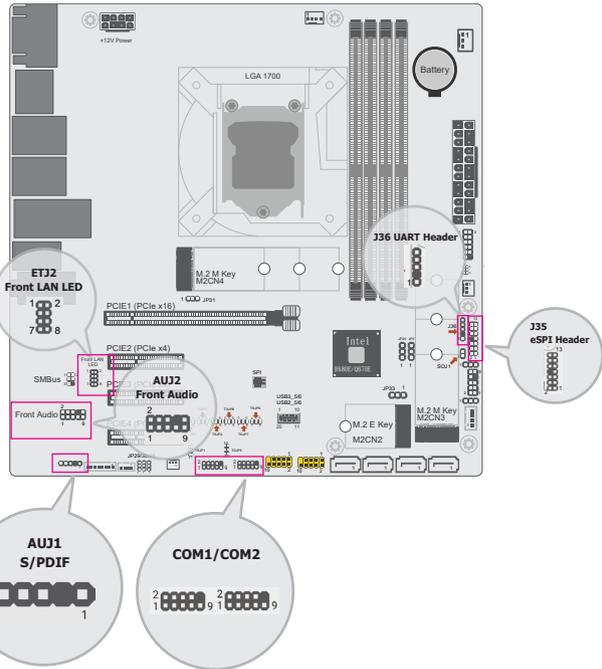
Pin	RS232	RS232 with PWR	RS422 Full Duplex	RS485
1	DCD-	+12V	RX+	Data+
2	SIN-	SIN-	RX-	Data-
3	SO-	SO-	TX+	---
4	DTR-	DTR-	TX-	---
5	GND	GND	GND	GND
6	DSR-	DSR-	---	---
7	RTS-	RTS-	---	---
8	CTS-	CTS-	---	---
9	RI-	+5V	---	---

### AUJ2 Front Audio

Pin	Function	Pin	Function
1	MIC2-L	2	GND
3	MIC2-R	4	--
5	LINE2-R	6	MIC2-JD
7	GND	8	--
9	LINE2-L	10	LINE2-JD

### J35 ESPI Header

Pin	Function	Pin	Function
1	3V3SB_1	2	ESPI_CLK
3	ESPI_RST#	4	GND_1
5	ESPI_ALT#	6	GND_2
7	ESPI_D0		
9	ESPI_D1	10	ESPI_CS
11	ESPI_D2	12	3V3SB_2
13	ESPI_D3	14	3V3SB_3



### J36 UART Header

Pin	Function
1	GND
2	NC
3	VCC
4	CPU TX
5	CPU RX

### AUJ1 S/PDIF

Pin	Function
1	ASV
2	--
3	SPOUT
4	GND
5	SPIN

### ETJ2 Front LAN LED

Pin	Function	Pin	Function
1	LED_SPEED_1000#	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

### UBJ1 USB 3.0 Headers

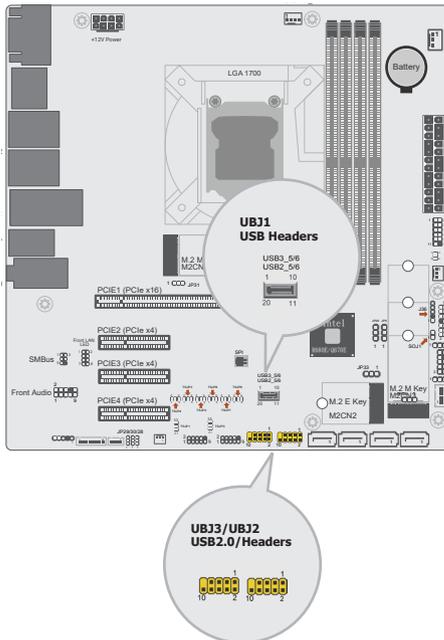
Pin	Function	Pin	Function
10	SBV3	11	GND
9	USBP_C_5N	12	USB3_TX6_DN
8	USBP_C_5P	13	USB3_TX6_DP
7	GND	14	GND
6	USB3_RX5_DN	15	USB3_RX6_DN
5	USB3_RX5_DP	16	USB3_RX6_DP
4	GND	17	GND
3	USB3_TX5_DN	18	USBP_C_6P
2	USB3_TX5_DP	19	USBP_C_6N
1	GND	20	SBV3

### UBJ2 USB 2.0 Headers

Pin	Function	Pin	Function
1	SBV6	2	SBV6
3	USBP_C_11N	4	USBP_C_12N
5	USBP_C_11P	6	USBP_C_12P
7	GND	8	GND
		10	N.C

### UBJ3 USB 2.0 Headers

Pin	Function	Pin	Function
1	SBV6	2	SBV6
3	USBP_C_13N	4	N.C
5	USBP_C_13P	6	N.C
7	GND	8	GND
		10	N.C



### J31 SATA0

Pin	Function
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

### J17 SATA2

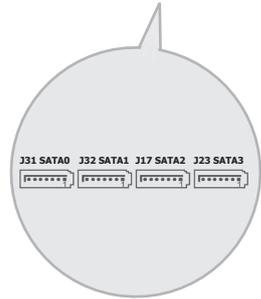
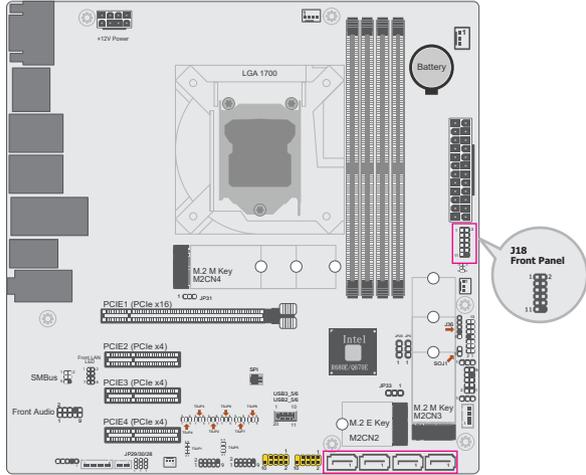
Pin	Function
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

### J32 SATA1

Pin	Function
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND

### J23 SATA3

Pin	Function
1	GND
2	TXP
3	TXN
4	GND
5	RXN
6	RXP
7	GND



### J18 Front Panel

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	---

HDD-LED  
R E S E T

P W R - L E D  
A T X - S W



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](http://www.dfi.com/downloadcenter), or via the QR codes to the right.

