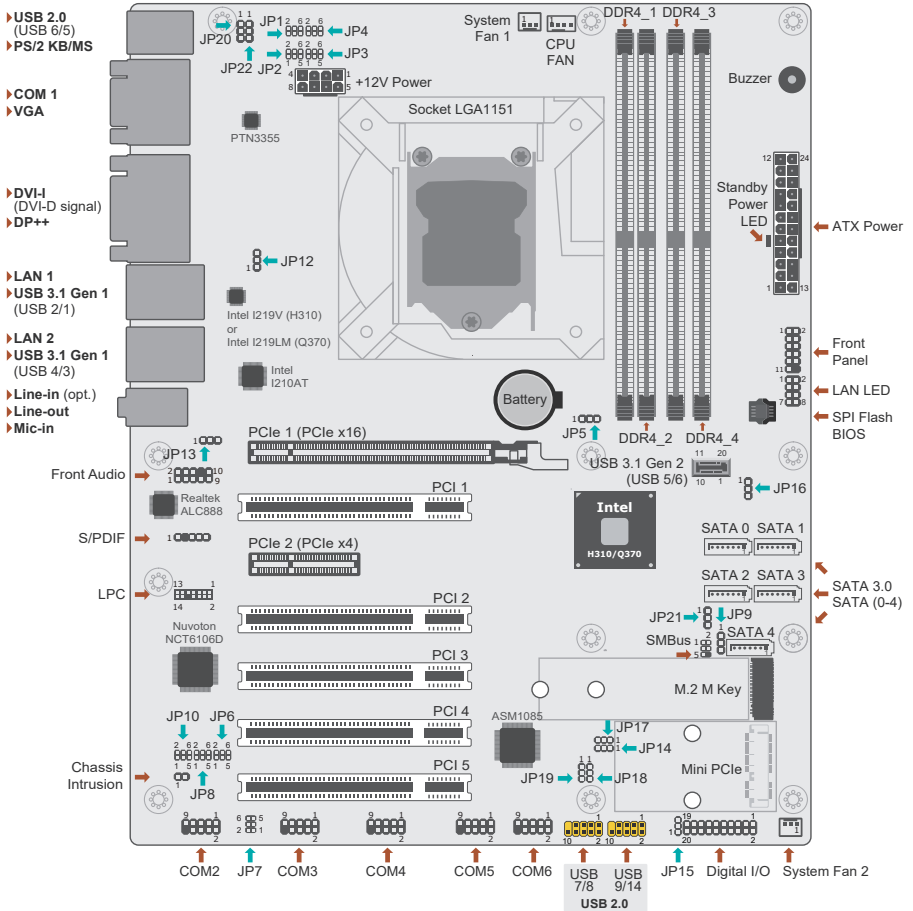


**Board Layout and Jumper Settings**



USB 2.0 Power Select	JP20 (USB 5/6) JP14 (USB 7/8) JP15 (USB 9/14)
5VDU	1-2 On
5V	2-3 On

USB 3.1 Power Select	JP12 (USB 1/2) JP13 (USB 3/4) JP16 (USB 5/6)
5VDU	1-2 On
5V	2-3 On

RS232 Power Select	JP4 (COM 1) JP7 (COM 2)
RS232 Standard (default)	1-3 (RI-), 2-4 (DCD-) On
RS232 with power	3-5 (+5V), 4-6 (+12V) On

COM Mode Select	JP1 (COM1) JP10 (COM2)	JP2/3 (COM 1) JP6/8 (COM 2)
RS232 (default)	1-2 On	1-3, 2-4 On
RS422 Full Duplex	3-4 On	3-5, 4-6 On
RS485	5-6 On	3-5, 4-6 On

**Note 1:** USB 9/14 can be replaced by an optional vertical USB 9.  
**Note 2:** SATA 4, Mini PCIe, USB 3.1 Gen 2 (USB5/6), DDR4\_2, DDR4\_4, JP21, and JP9 are CS630-Q370 specific components.

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

Mini PCIe/mSATA Signal	JP9
Mini PCIe (default)	1-2 On
mSATA	2-3 On

Mini PCIe/mSATA Power	JP21
3V3 (default)	1-2 On
3V3DU	2-3 On

PS/2 Power Select	JP22
+5VDU (default)	1-2 On
+5V	2-3 On

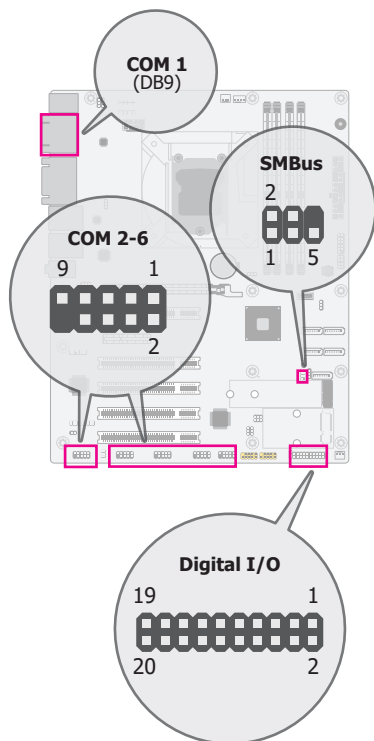
Digital I/O Power	JP17
+5VDU (default)	1-2 On
+5V	2-3 On

Digital I/O Output	JP18 (DIO 0-3) JP19 (DIO 4-7)
+5V or +5VDU (default)	1-2 On
GND	2-3 On

## Pin Assignment

### Digital I/O (DIO)

Pin	Function	Pin	Function
1	GND	2	+12V
3	DIO7	4	+12V
5	DIO6	6	GND
7	DIO5	8	+5V
9	DIO4	10	+5V
11	DIO3	12	GND
13	DIO2	14	+5VDU
15	DIO1	16	+5VDU
17	DIO0	18	GND
19	GND	20	---



### COM Ports (COM 1-6)

Pin	RS232	RS232 with Power	RS422 Full Duplex	RS485
1	DCD-	+12V	RXD+	Data+
2	RD	RD	RXD-	Data-
3	TD	TD	TXD+	N.C.
4	DTR-	DTR-	TXD-	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.

### SMBus

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

**Note:** All three modes, i.e. RS232, RS422, and RS485 are available for COM 1 & 2. Only RS232 is available for COM 3 - 6. RS232 with power is only available for COM 1 & 2.

## Front Panel

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

## S/PDIF

Pin	Assignment	Pin	Assignment
1	+5V	2	---
3	SPDIF Out	4	GND
5	SPDIF In		

## LAN LED

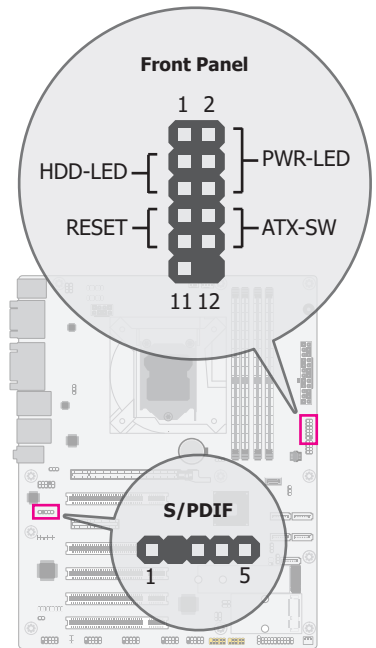
Pin	Assignment	Pin	Assignment
1	GBE_LED_1000-	2	GBE_LED_100-
3	GBE_LED_LINK_ACT-	4	3V3DU
5	LINK_1000_4	6	LINK_100_4
7	LINK_ACTIVITY_4	8	3V3DU

## Front Audio

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

## Chassis Intrusion

Pin	Function	Pin	Function
1	Signal	2	GND



## LPC

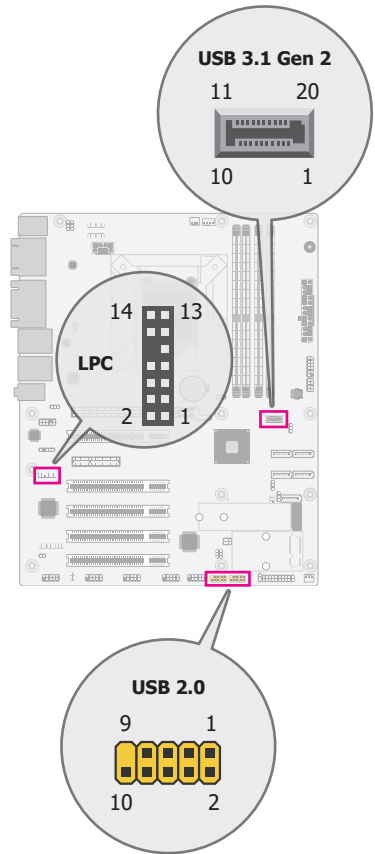
Pin	Assignment	Pin	Assignment
1	L_CLK	2	L_AD1
3	L_RST#	4	L_AD0
5	L_FRAME#	6	3V3
7	L_AD3	8	GND
9	L_AD2	10	---
11	INT_SERIRQ	12	GND
13	5VSB	14	5V

### USB 3.1 Gen 2 Headers (USB 5/6 only for Q370)

Pin	Assignment	Pin	Assignment
1	GND	11	GND
2	USB3_TX5+	12	USB3_TX6-
3	USB3_TX5-	13	USB3_TX6+
4	GND	14	GND
5	USB3_RX5+	15	USB3_RX6-
6	USB3_RX5-	16	USB3_RX6+
7	GND	17	GND
8	D11+	18	D12+
9	D11-	19	D12-
10	SBV6	20	SBV6

### USB 2.0 Headers (USB 7/8, 9/14)

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



DFI reserves the right to change the specifications at any time prior to the product's release. For the latest information about the product, please visit the document download page at [go.dfi.com/CS630-H310](http://go.dfi.com/CS630-H310), [go.dfi.com/CS630-Q370](http://go.dfi.com/CS630-Q370), or via the QR codes to the right.



CS630-H310



CS630-Q370