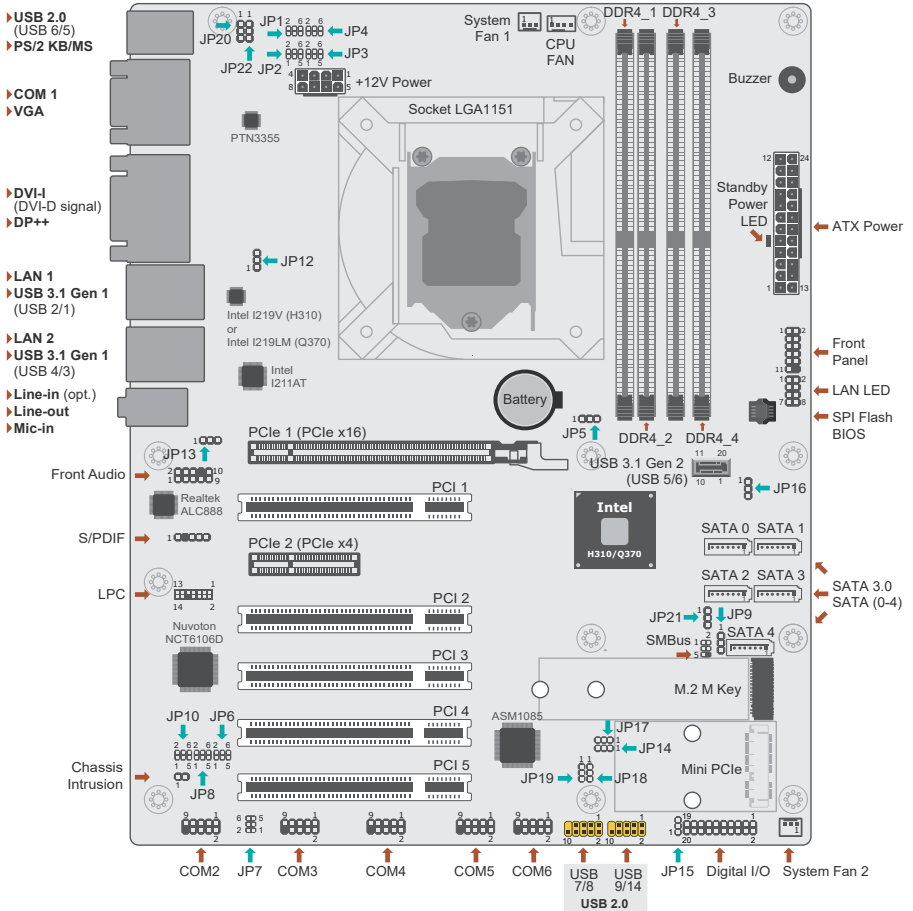


Board Layout and Jumper Settings



| 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 |

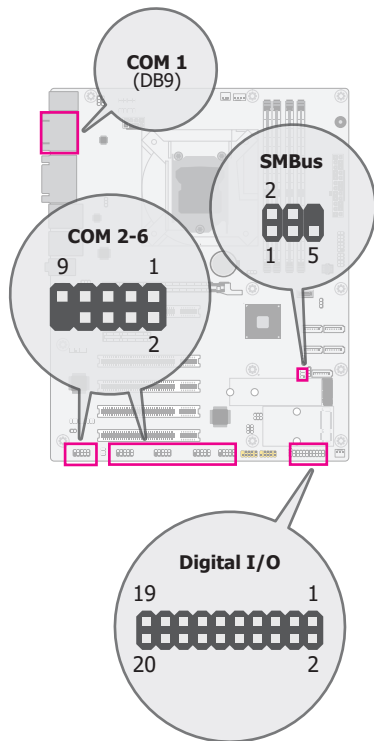
| Digital I/O Power | JP17 |
|-------------------|--------|
| +5VDU (default) | 1-2 On |
| +5V | 2-3 On |

| 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

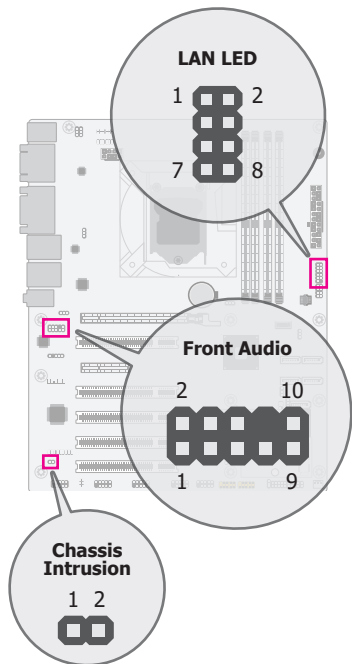
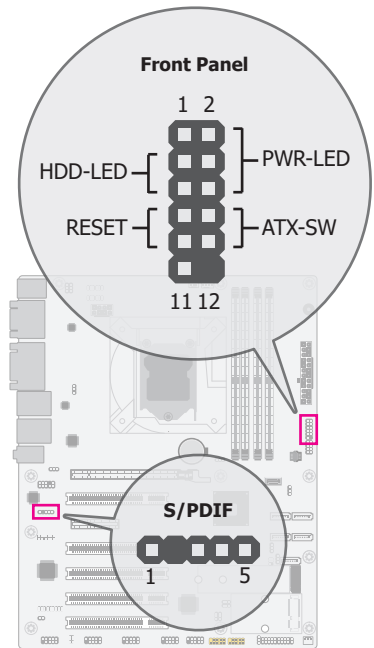
| Pin | Assignment | Pin | Assignment |
|-----|-------------------|-----|--------------|
| 1 | GBE_LED_1000- | 2 | GBE_LED_100- |
| 3 | GBE_LED_LINK_ACT- | 4 | 3V3DU |
| 5 | LINK_1000_4 | 6 | LINK_100_4 |
| 7 | LINK_ACTIVITY_4 | 8 | 3V3DU |

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

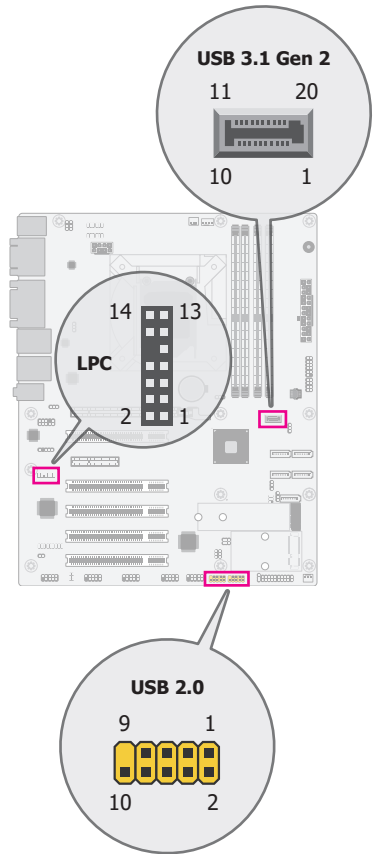
| Pin | Assignment | Pin | Assignment |
|-----|------------|-----|------------|
| 1 | L_CLK | 2 | L_AD1 |
| 3 | L_RST# | 4 | L_AD0 |
| 5 | L_FRAME# | 6 | 3V3 |
| 7 | L_AD3 | 8 | GND |
| 9 | L_AD2 | 10 | --- |
| 11 | INT_SERIRQ | 12 | GND |
| 13 | 5VSB | 14 | 5V |

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, go.dfi.com/CS630-Q370, or via the QR codes to the right.



CS630-H310



CS630-Q370