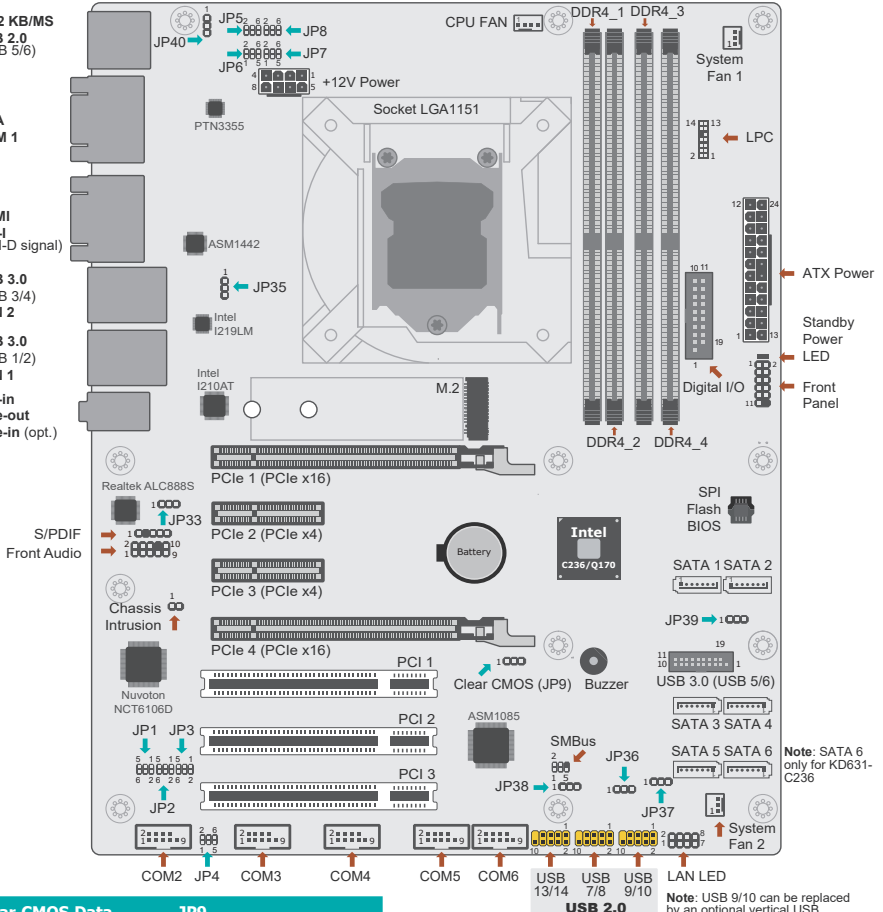


Board Layout and Jumper Settings

- ▶ PS/2 KB/MS
- ▶ USB 2.0 (USB 5/6)
- ▶ VGA
- ▶ COM 1
- ▶ HDMI
- ▶ DVI-I (DVI-D signal)
- ▶ USB 3.0 (USB 3/4)
- ▶ LAN 2
- ▶ USB 3.0 (USB 1/2)
- ▶ LAN 1
- ▶ Mic-in
- ▶ Line-out
- ▶ Line-in (opt.)



Clear CMOS Data	JP9
Normal (default)	1-2 On
Clear CMOS Data	2-3 On

RS232 Power Select	JP8 (COM 1) JP4 (COM 2)
RS232 Standard (default)	1-3 (RT-), 2-4 (DCD-) On
COM 1 RS232 with power	3-5 (+5V), 4-6 (+12V) On
COM 2 RS232 with power	3-5 (+5V), 4-7 (+12V) On

USB 3.0 Power Select	JP33 (USB 1/2) JP35 (USB 3/4) JP39 (USB 5/6)
5VDU	1-2 On
5V	2-3 On

COM Ports Mode Select	JP5 (COM 1) JP1 (COM 2)	JP6/7 (COM 1) JP2/3 (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

USB 2.0 Power Select	JP36 (USB 7/8) JP37 (USB 9/10) JP38 (USB 13/14) JP40 (USB 5/6)
5VDU	1-2 On
5V	2-3 On

Note: SATA 6 only for KD631-C236
 Note: USB 9/10 can be replaced by an optional vertical USB.

Pin Assignment

Digital I/O (DIO)

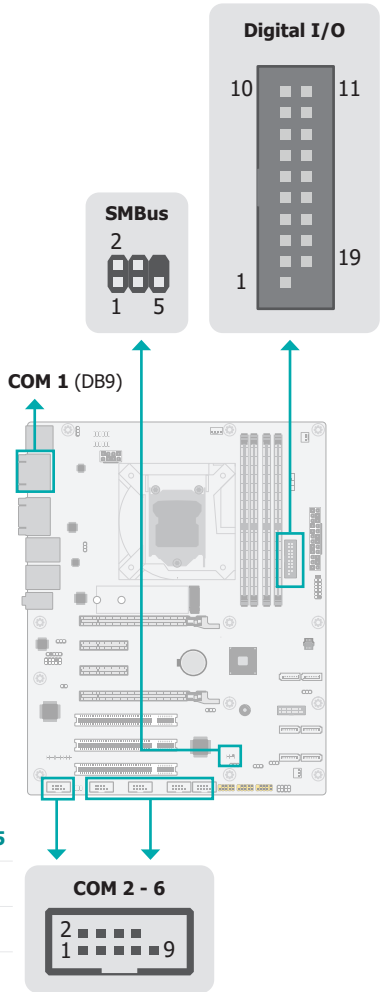
Pin	Function	Pin	Function
1	GND	2	+12V
3	DIO7	4	+12V
5	DIO6	6	GND
7	DIO5	8	+5V
9	DIO4	10	+5V
11	DIO3	12	GND
13	DIO2	14	+5VDU
15	DIO1	16	+5VDU
17	DIO0	18	GND
19	GND	20	---

SMBus

Pin	Assignment	Pin	Assignment
1	3V3DU	2	GND
3	SMB_Clock	4	SMB_DATA
5	SMB_Alert	6	---

COM Ports (COM 1-6)

Pin	RS232 (1-2)	RS232 (3-6)	RS232 with Power	RS422 Full Duplex	RS485
1	DCD-	DCD-	+12V	RXD+	Data+
2	RD	SIN-	RD	RXD-	Data-
3	TD	SO-	TD	TXD+	N.C.
4	DTR-	DTR-	DTR-	TXD-	N.C.
5	GND	GND	GND	GND	GND
6	DSR-	DSR-	DSR-	N.C.	N.C.
7	RTS-	RTS-	RTS-	N.C.	N.C.
8	CTS-	CTS-	CTS-	N.C.	N.C.
9	RI-	RI-	+5V	N.C.	N.C.



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 Audio

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

S/PDIF

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

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	---

HD-LED
RESET

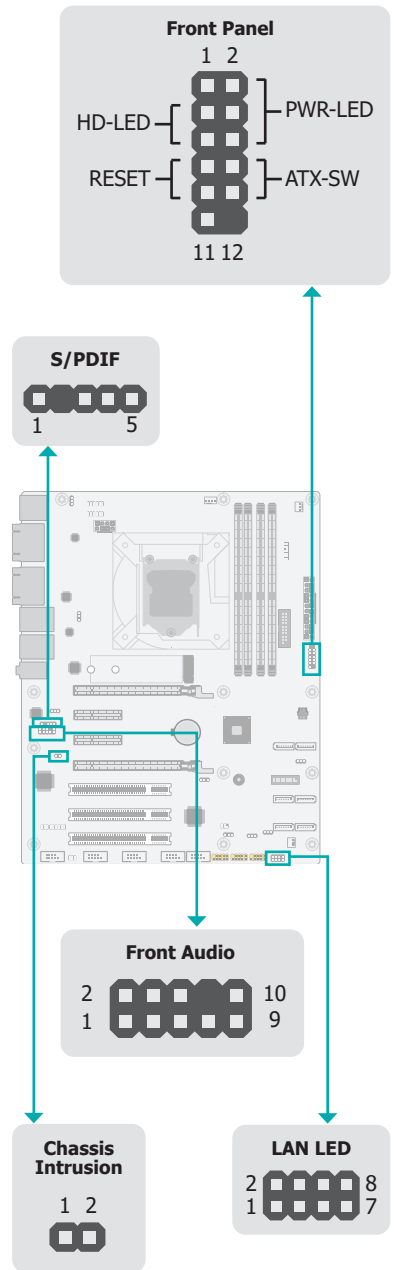
PWR-LED
ATX-SW

Chassis Intrusion

Pin	Function	Pin	Function
1	Signal	2	GND

LAN LED

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



LPC

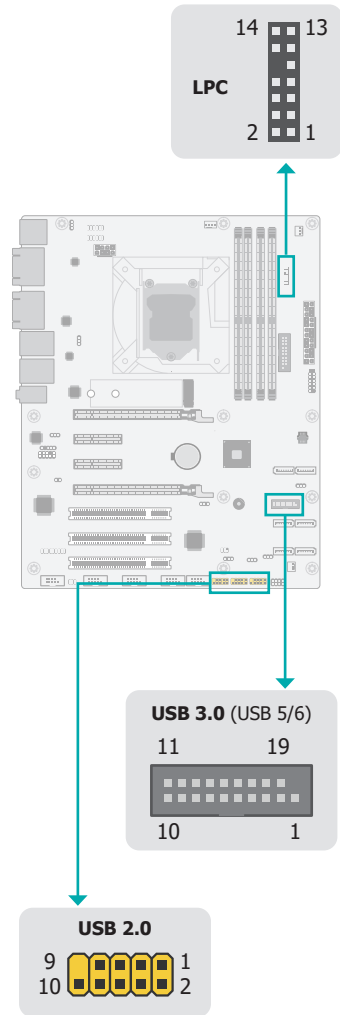
Pin	Assignment	Pin	Assignment
1	L_CLK	2	L_LAD1
3	L_RST#	4	L_LAD0
5	L_FRAME#	6	3.3V
7	L_LAD3	8	GND
9	L_LAD2	10	---
11	INT_SERIRQ	12	GND
13	5VSB	14	5V

USB 3.0 Headers

Pin	Assignment	Pin	Assignment
1	SBV6	11	USBP_C_12P
2	USB3_RX5_C_DN	12	USBP_C_12N
3	USB3_RX5_C_DP	13	GND
4	GND	14	USB3_TX6_C_DP
5	USB3_TX5_C_DN	15	USB3_TX6_C_DN
6	USB3_TX5_C_DP	16	GND
7	GND	17	USB3_RX6_C_DP
8	USBP_C_11N	18	USB3_RX6_C_DN
9	USBP_C_11P	19	SBV6
10	5V	20	---

USB 2.0 (USB 7-14)

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/KD631-C236, go.dfi.com/KD631-Q170 or via the QR codes to the right.



KD631-C236



KD631-Q170