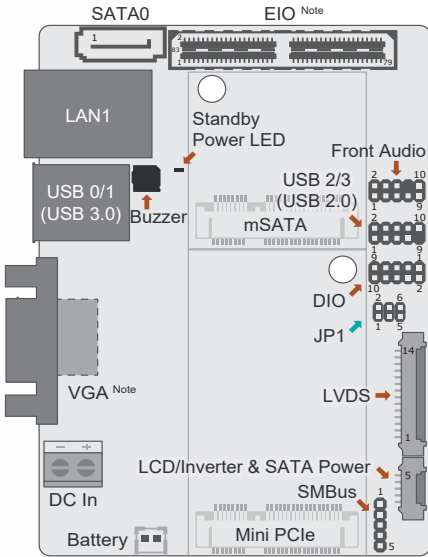
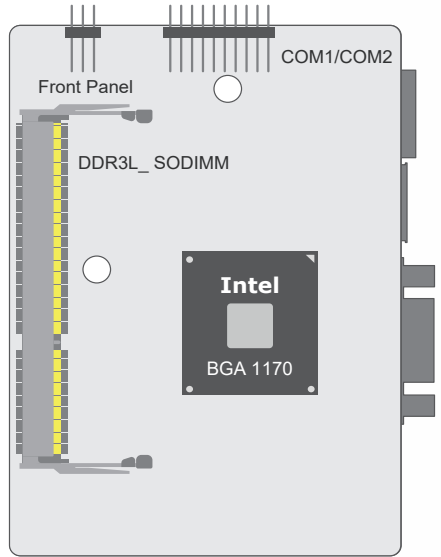


Board Layout



⌘ Top View



⌘ Bottom View

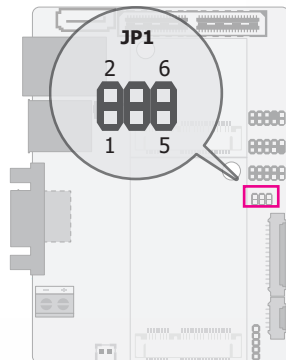


Note:

The display can either be VGA or HDMI. The Extension I/O (EIO) is available upon request.

Jumper Setting and Pin Assignment

Panel Power / Power On	JP1
+3.3V (default)	1-3 On
+5V	3-5 On
Power on via power button	2-4 On
Auto power on	4-6 On



COM 1 (Bottom Side)

Pin	RS232	Pin	RS232
1	DCD-	2	DSR-
3	RD	4	RTS-
5	TD	6	CTS-
7	DTR-	8	RI-
9	GND	10	GND

COM 2 (Bottom Side)

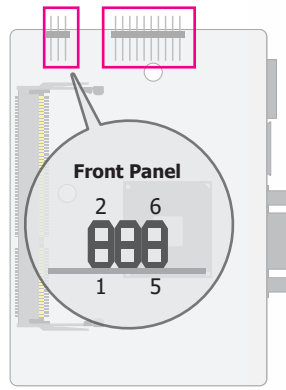
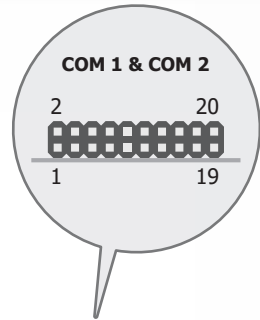
Pin	RS232	RS422 Full Duplex	RS485
11	DCD-	TX+	Data-
12	DSR-	N.C.	N.C.
13	RD	TX-	Data+
14	RTS-	N.C.	N.C.
15	TD	RX+	GND
16	CTS-	N.C.	N.C.
17	DTR-	RX-	N.C.
18	RI-	N.C.	N.C.
19	GND	GND	GND
20	GND	GND	GND

Front Panel (Bottom Side)

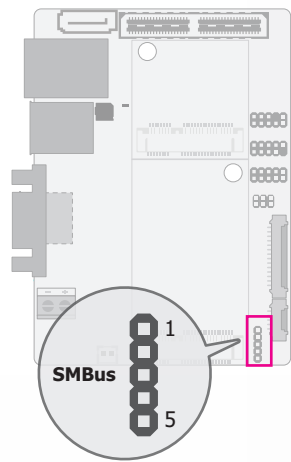
Pin	Assignment	Pin	Assignment
HDD-LED	6 HDD_LED	RESET	5 Reset Button
	3 GND		3 GND
PWR-LED	4 SUS_LED	PWR-BTN	1 Power Button
	2 V_LED		3 GND

SMBus

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



Note:
COM 1 and COM 2 share the same connector. COM 2 serial mode is configured via BIOS.



Front Audio

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

DIO

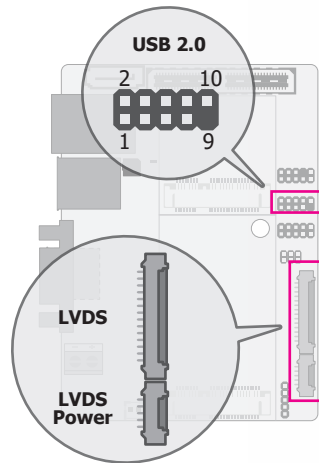
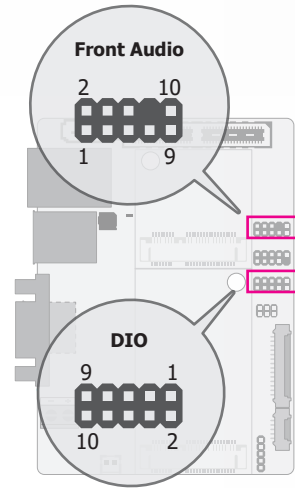
Pin	Assignment	Pin	Assignment
1	DIO7	6	DIO2
2	DIO6	7	DIO1
3	DIO5	8	DIO0
4	DIO4	9	5V
5	DIO3	10	GND

USB 2.0 (USB 2/3)

Pin	Assignment	Pin	Assignment
1	VCC	2	VCC
3	Data2-	4	Data3-
5	Data2+	6	Data3+
7	GND	8	GND
9	---	10	N.C.

LVDS

Pin	Assignment	Pin	Assignment
1	GND	2	GND
3	LVDS_CLK-	4	LVDS_CLK-
5	LVDS_Out3-	6	LVDS_Out3+
7	LVDS_Out2-	8	LVDS_Out2+
9	LVDS_Out1-	10	LVDS_Out1+
11	LVDS_Out0-	12	LVDS_Out0+
13	Panel Power	14	Panel Power

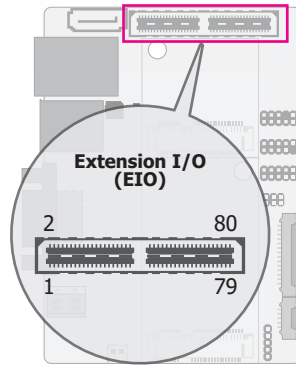


LVDS Power

Pin	Assignment
1	+12V
2	GND
3	Panel Backlight On/Off
4	Dimming Control
5	+5V

EIO

Pin	Assignment	Pin	Assignment
1	PCIE_RX0+	2	PCIE_TX0+
3	PCIE_RX0-	4	PCIE_TX0-
5	GND	6	GND
7	PCIE_RX1+	8	PCIE_TX1+
9	PCIE_RX1-	10	PCIE_TX1-
11	GND	12	GND
13	PCIE_CLK+	14	USB_SSRX1+
15	PCIE_CLK-	16	USB_SSRX1-
17	GND	18	GND
19	USB_SSRX0+	20	USB_SSTX1+
21	USB_SSRX0-	22	USB_SSTX1-
23	GND	24	GND
25	USB_SSTX0+	26	N.C.
27	USB_SSTX0-	28	N.C.
29	GND	30	N.C.
31	SATA0_RX+	32	N.C.
33	SATA0_RX-	34	GND
35	GND	36	PCIE_WAKE
37	SATA0_TX+	38	N.C.
39	SATA0_TX-	40	N.C.
41	GND	42	SMB_STB_CK
43	DDIO_CTRLCLK_AUX+	44	SMB_STB_DAT
45	DDIO_CTRLCLK_AUX-	46	GND
47	GND	48	CLK33M
49	DDIO_PAIR0+	50	LPC_ADO



Pin	Assignment	Pin	Assignment
51	DDIO_PAIR0-	52	LPC_AD1
53	GND	54	LPC_AD2
55	DDIO_PAIR1+	56	LPC_AD3
57	DDIO_PAIR1-	58	LPC_SERIRQ
59	GND	60	LPC_FRAME#
61	DDIO_PAIR2+	62	DDIO_HPD
63	DDIO_PAIR2-	64	DDIO_AUX_Detect
65	GND	66	GND
67	DDIO_PAIR3+	68	GPIO_STB (INT)
69	DDIO_PAIR3-	70	PLT_RESET#
71	GND	72	12VSB
73	3V3SB	74	12VSB
75	3V3SB	76	PS_ON
77	AUD_GND	78	Line-JD
79	Line1_L	80	Line1-R
81	N.C.	82	N.C.



DFI reserves the right to change the specifications at any time prior to the product's release. This QR may be based on editions that do not resemble your actual products. For more documentation and drivers, please visit the download page at go.dfi.com/BW051, or via the QR code to the right.

