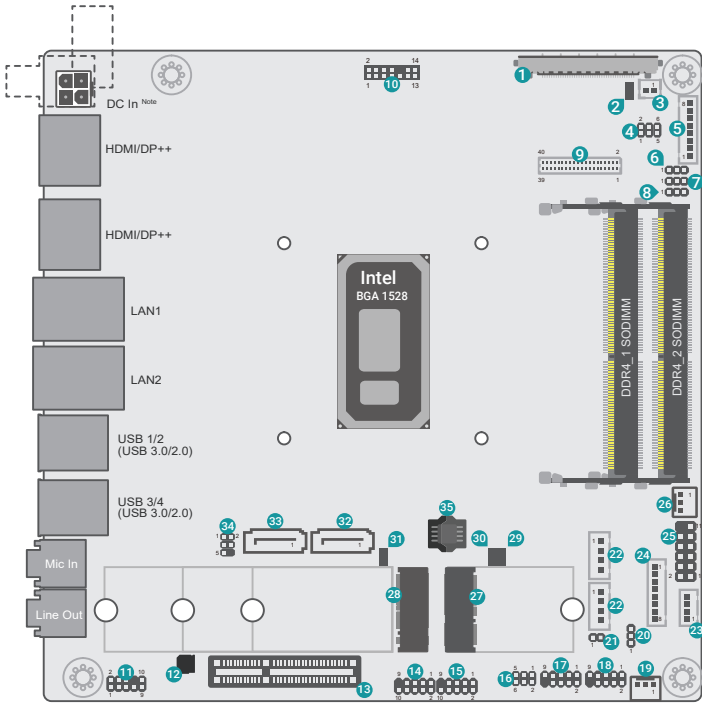


Board Layout



- 1 V-by-One HS (Optional)
- 2 LED4
- 3 Battery
- 4 JP4
- 5 LVDS Inverter Power
- 6 JP1
- 7 JP5
- 8 JP3
- 9 LVDS
- 10 LPC
- 11 Front Audio
- 12 Buzzer
- 13 PCIE1 (PCIe x4)
- 14 USB 7/8 (USB 2.0)
- 15 USB 5/6 (USB 2.0)
- 16 JP2
- 17 COM1
- 18 COM2
- 19 SYS FAN
- 20 JP6
- 21 Chassis Intrusion
- 22 SATA Power
- 23 DIO Power
- 24 DIO
- 25 Front Panel
- 26 CPU FAN
- 27 M.2 E Key
- 28 M.2 M Key
- 29 LED2
- 30 LED1
- 31 LED3
- 32 SATA1
- 33 SATA0
- 34 SMBUS
- 35 SPI Flash BIOS



Note:

WL171 supports 12Vdc, whereas WL173 supports wide range 9~36Vdc. The default DC connector is 2-pin coaxial. 4-pin vertical and right-angle are optional.

| Clear CMOS Data | JP1 |
|------------------|--------|
| Normal (default) | 1-2 On |
| Clear CMOS Data | 2-3 On |

| LVDS Backlight Power | JP3 |
|----------------------|--------|
| 3.3V (default) | 1-2 On |
| 5V | 2-3 On |

| COM 1 RS232 Power | JP2 |
|--------------------------|--------------|
| Standard RS232 (default) | 1-3 & 2-4 On |
| RS232 with Power | 3-5 & 4-6 On |

| LVDS Inverter Power | JP5 |
|---------------------|--------|
| +12V (default) | 1-2 On |
| 5V | 2-3 On |

| LVDS Panel Power | JP4 |
|------------------|--------|
| 12V | 1-2 On |
| 5V | 3-4 On |
| 3V (default) | 5-6 On |

| Auto Power-on Select | JP6 |
|----------------------------|--------|
| Via power button (default) | 1-2 On |
| Via AC power | 2-3 On |

Pin Assignment

Digital I/O (DIO)

| Pin | Function | Pin | Function |
|-----|----------|-----|----------|
| 1 | DIO_0 | 5 | DIO_4 |
| 2 | DIO_1 | 6 | DIO_5 |
| 3 | DIO_2 | 7 | DIO_6 |
| 4 | DIO_3 | 8 | DIO_7 |

COM Ports (COM 1 & 2)

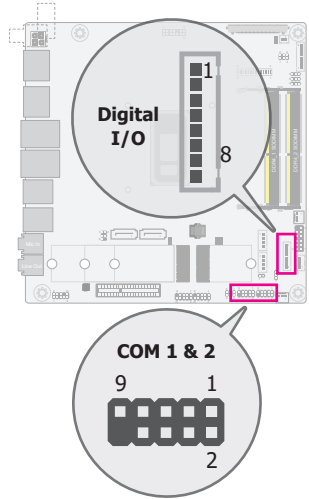
| Pin | Standard RS232 | RS232 with Power | RS422 Full Duplex | RS485 |
|-----|----------------|------------------|-------------------|-------|
| 1 | DCD- | 12V | RX+ | Data+ |
| 2 | RD | RD | RX- | Data- |
| 3 | TD | TD | TX+ | N.C. |
| 4 | DTR- | DTR- | TX- | N.C. |
| 5 | GND | GND | GND | GND |
| 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. |

Chassis Intrusion

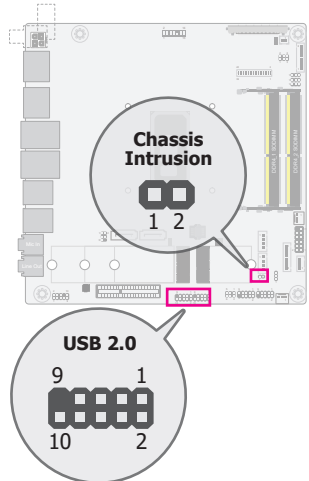
| Pin | Function | Pin | Function |
|-----|----------|-----|----------|
| 1 | Signal | 2 | GND |

USB 2.0 Headers (USB 5/6, 7/8)

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



Note:
COM 2 only supports Standard RS232.



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 | --- |

SMBus

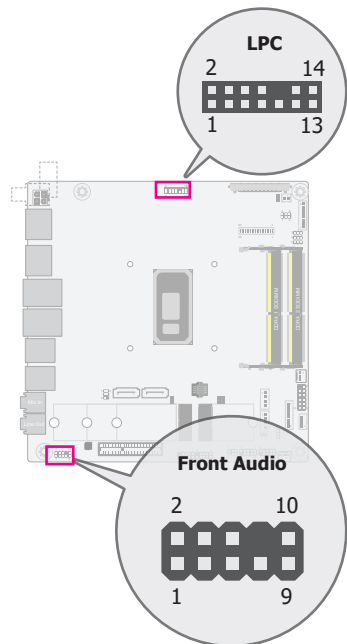
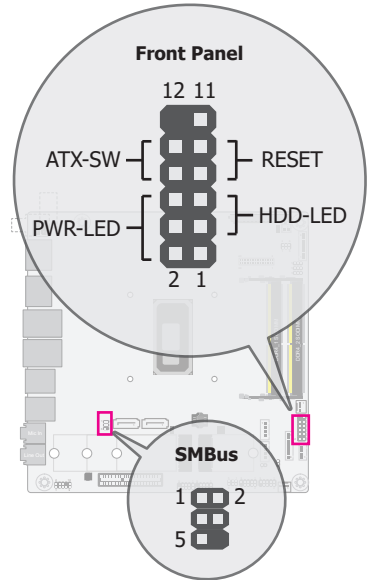
| Pin | Assignment | Pin | Assignment |
|-----|------------|-----|------------|
| 1 | 3V3SB | 2 | GND |
| 3 | SMB_CLK | 4 | SMB_DATA |
| 5 | SMB_ALERT | 6 | GND |

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 | SERIRQ | 12 | GND |
| 13 | 5VSB | 14 | 5V |

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 |

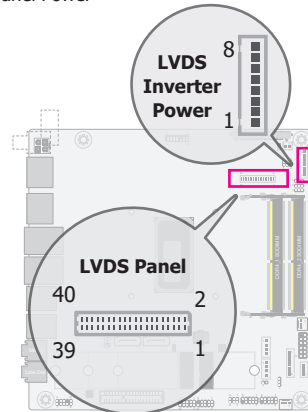


LVDS Panel

| Pin | Assignment | Pin | Assignment |
|-----|---------------|-----|-------------|
| 1 | GND | 2 | GND |
| 3 | LVDS_A3+ | 4 | LVDS_B3+ |
| 5 | LVDS_A3- | 6 | LVDS_B3- |
| 7 | GND | 8 | GND |
| 9 | LVDS_A2+ | 10 | LVDS_B2+ |
| 11 | LVDS_A2- | 12 | LVDS_B2- |
| 13 | GND | 14 | GND |
| 15 | LVDS_A1+ | 16 | LVDS_B1+ |
| 17 | LVDS_A1- | 18 | LVDS_B1- |
| 19 | GND | 20 | GND |
| 21 | LVDS_A0+ | 22 | LVDS_B0+ |
| 23 | LVDS_A0- | 24 | LVDS_B0- |
| 25 | GND | 26 | GND |
| 27 | LVDS_CLK1+ | 28 | LVDS_CLK2+ |
| 29 | LVDS_CLK1- | 30 | LVDS_CLK2- |
| 31 | GND | 32 | GND |
| 33 | LVDS_DDC_CLK | 34 | NC |
| 35 | LVDS_DDC_DATA | 36 | +3.3V |
| 37 | Panel Power | 38 | Panel Power |
| 39 | Panel Power | 40 | Panel Power |

LCD/Inverter Power

| Pin | Assignment |
|-----|---|
| 1 | GND |
| 2 | GND |
| 3 | Panel Inverter Brightness Voltage Control |
| 4 | Panel Power |
| 5 | +3.3V |
| 6 | Panel Backlight On/Off Control |
| 7 | 12V (default) / 5V |
| 8 | 12V (default) / 5V |



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/WL17x, or via the QR code to the right.

