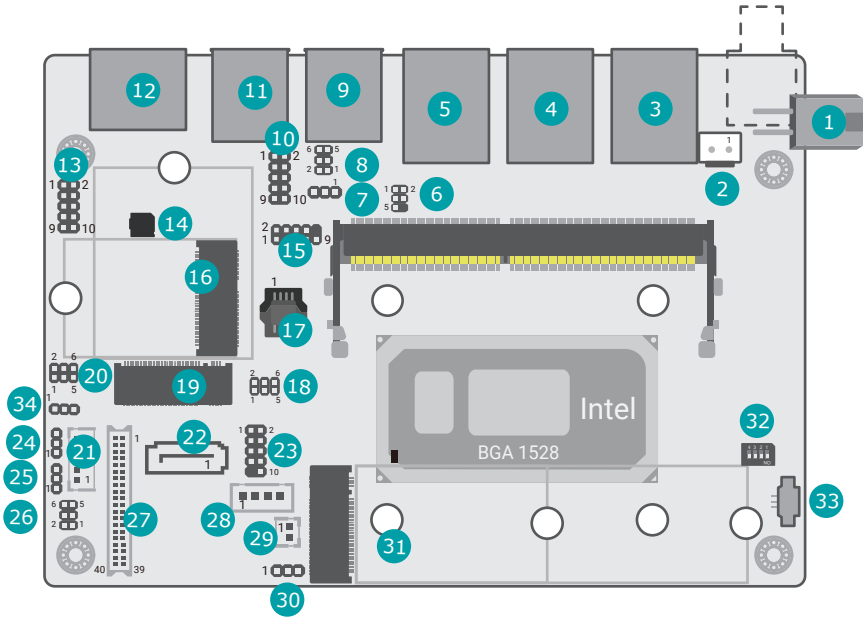


Board Layout



- | | | |
|--------------------|--|--|
| 1 12V DC-In | 15 COM1 | 29 Battery |
| 2 Heater (option) | 16 M.2 E Key 2230 | 30 Clear CMOS |
| 3 LAN 1 | 17 SPI Flash BIOS | 31 M.2 M Key 2242/2280 |
| 4 LAN 2 | 18 InnoAGE HDR1 | 32 DIP switch |
| 5 LAN 3 | 19 M.2 B Key 3042/2242 | 33 CPU Fan |
| 6 SMBus | 20 Front Panel | 34 Auto Power On / Power On Select(option) |
| 7 DIO POWER Select | 21 LVDS Backlight | |
| 8 DIO PU/PD Select | 22 SATA | |
| 9 USB 1/2 | 23 USB 7/8 (USB 2.0) | |
| 10 DIO | 24 Backlight ON/OFF & Dimming voltage select | |
| 11 USB 3/4 | 25 Inverter Power Select | |
| 12 DP++/HDMI | 26 Panel Power Select | |
| 13 Front Audio | 27 LVDS | |
| 14 Buzzer | 28 SATA Power | |

Switch Settings

32 DIP Switch

SW1

| SKUs | | M.2 E-Key | M.2 B-Key | M.2 M-Key | SATA_5V |
|-----------|-----|-----------|-----------|-----------|---------|
| 000G~800G | SW1 | 1-8 ON | 2-7 ON | 3-6 OFF | 4-5 OFF |
| | | +3V3SB | +3V3SB | +3V3 | +5V |
| 900G | SW1 | 1-8 ON | 2-7 ON | 3-6 ON | 4-5 ON |
| | | +3V3SB | +3V3SB | +3V3SB | +5VSB |

Jumper Settings

30 Clear CMOS

JP1

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

34 Power On Select (Option)

JP5

| | |
|-----------------|------------------|
| AC In Power On | 1-2 On (default) |
| Power Button ON | 2-3 On |

25 Inverter Power Select

DPJP602

| | |
|----------------|--------|
| +12V (default) | 1-2 On |
| +5V | 2-3 On |

26 Panel Power Select

DPJP603

| | |
|-----------------|--------|
| +12V | 1-2 On |
| +5V | 3-4 On |
| +3.3V (default) | 5-6 On |

24 Backlight ON/OFF & Dimming voltage select

DPJP604

| | |
|----------------|--------|
| +3V3 (default) | 1-2 On |
| +5V | 2-3 On |

7 DIO POWER Select

JP2

| | |
|-----------------|--------|
| +5VSB (default) | 1-2 On |
| +5V | 2-3 On |

8 DIO PU/PD Select

JP3

| | |
|--------------------|-----------------|
| DIO Power (DIO4-7) | 1-3 On(default) |
| DIO Power (DIO0-3) | 2-4 On(default) |
| GND (DIO4-7) | 3-5 On |
| GND (DIO0-3) | 4-6 On |

Pin Assignments

23 USB 7/8 (USB 2.0)

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

28 SATA Power

| Pin | Function |
|-----|----------------------------|
| 1 | +12V |
| 2 | GND |
| 3 | GND |
| 4 | 5V_SATA by SW1 4-5 select. |

22 SATA

| Pin | Function |
|-----|----------|
| 1 | GND |
| 2 | TX+ |
| 3 | TX- |
| 4 | GND |
| 5 | RX- |
| 6 | RX+ |
| 7 | GND |

20 Front Panel

| Pin | Function | Pin | Function |
|-----|--------------|-----|-------------|
| 1 | Power Button | 2 | SUS LED PWR |
| 3 | GND | 4 | SUS LED |
| 5 | Reset | 6 | HDD LED |

15 COM1

| Pin | RS232 | RS422 | RS485 |
|-----|-------|-------|-------|
| 1 | DCD- | TXD- | Data- |
| 2 | SIN | TXD+ | Data+ |
| 3 | SOUT | RXD+ | N.C. |
| 4 | DTR- | RXD- | N.C. |
| 5 | GND | GND | GND |
| 6 | DSR- | N.C. | N.C. |
| 7 | RTS- | N.C. | N.C. |
| 8 | CTS- | N.C. | N.C. |
| 9 | RI- | N.C. | N.C. |

10 DIO

| Pin | Function | Pin | Function |
|-----|-----------|-----|----------|
| 1 | DIO_7 | 2 | DIO_6 |
| 3 | DIO_5 | 4 | DIO_4 |
| 5 | DIO_3 | 6 | DIO_2 |
| 7 | DIO_1 | 8 | DIO_0 |
| 9 | DIO Power | 10 | GND |

13 Front Audio

| Pin | Function | Pin | Function |
|-----|------------|-----|-----------------|
| 1 | Mic-L | 2 | GND |
| 3 | Mic-R | 4 | N.C. |
| 5 | Line-Out-R | 6 | Mic-JD (sense) |
| 7 | GND | 8 | N.C. |
| 9 | Line-Out-L | 10 | Line-JD (sense) |

6 SMBus

| Pin | Function | Pin | Function |
|-----|-----------|-----|----------|
| 1 | 3V3SB | 2 | GND |
| 3 | SM_Clk | 4 | SM_DATA |
| 5 | SM_Alert- | 6 | --- |

27 LVDS

| Pin | Function | Pin | Function |
|-----|---------------|-----|-------------|
| 1 | GND | 2 | GND |
| 3 | LVDSA_Out3+ | 4 | LVDSB_Out3+ |
| 5 | LVDSA_Out3- | 6 | LVDSB_Out3- |
| 7 | GND | 8 | GND |
| 9 | LVDSA_Out2+ | 10 | LVDSB_Out2+ |
| 11 | LVDSA_Out2- | 12 | LVDSB_Out2- |
| 13 | GND | 14 | GND |
| 15 | LVDSA_Out1+ | 16 | LVDSB_Out1+ |
| 17 | LVDSA_Out1- | 18 | LVDSB_Out1- |
| 19 | GND | 20 | GND |
| 21 | LVDSA_Out0+ | 22 | LVDSB_Out0+ |
| 23 | LVDSA_Out0- | 24 | LVDSB_Out0- |
| 25 | GND | 26 | GND |
| 27 | LVDSA_CLK1+ | 28 | LVDSB_CLK1+ |
| 29 | LVDSA_CLK1- | 30 | LVDSB_CLK1- |
| 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 |

21 LVDS Backlight

| Pin | Function |
|-----|------------------------|
| 1 | +12V/+5V via jumper |
| 2 | GND |
| 3 | Backlight On/Off |
| 4 | PWM Brightness Control |
| 5 | 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/WL551, or via the QR code to the right.

