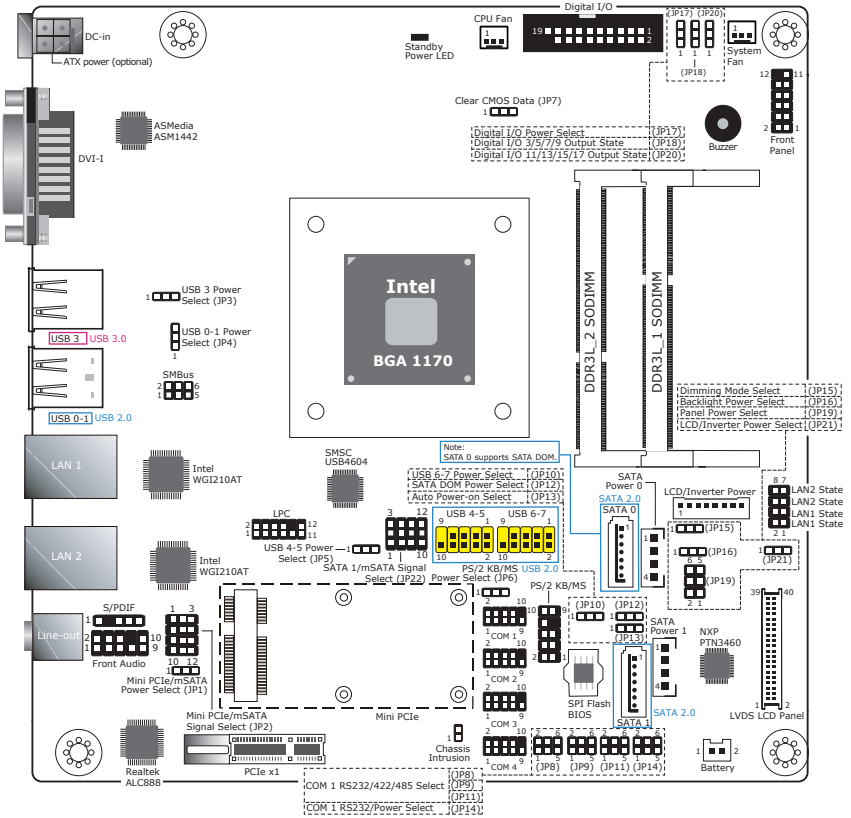
Board Layout (Top View)



Jumper Settings

PS/2 Keyboard/Mouse Power Select	JP6
+5V (default)	1-2 On
+5V_standby	2-3 On

USB Power Select: 0-1 (JP4), 3 (JP3), 4-5 (JP5), 6-7 (JP10)	
+5V (default)	1-2 On
+5V_standby	2-3 On

Clear CMOS Data	JP7
Normal (default)	1-2 On
Clear CMOS Data	2-3 On

LCD/Inverter Power Select	JP21
+12V (default)	1-2 On
+5V	2-3 On

COM 1 RS232/422/485 Select	JP8
RS232 (default)	1-2 On
RS422 Full Duplex	3-4 On
RS485	5-6 On

COM 1 RS232/422/485 Select	JP9/JP11
RS232 (default)	1-3, 2-4 On
RS422 Full Duplex/RS485	3-5, 4-6 On

COM 1 RS232/Power Select	JP14
RS232 (default)	1-3 (RI), 2-4 (DCD) On
RS232 with power	3-5 (+5V), 4-6 (+12V) On

Panel Power Select	JP19
+12V	1-2 On
+5V	3-4 On
+3.3V (default)	5-6 On

Backlight Power Select	JP16
+3.3V (default)	1-2 On
+5V	2-3 On

Mini PCIe/mSATA Power Select	JP1
+3.3V_standby (Mini PCIe) (default)	1-2 On
+3.3V (mSATA)	2-3 On

Mini PCIe/mSATA Signal Select	JP2
PCIe 1 (default)	1-4-7-10 2-5-8-11 On
mSATA	2-5-8-11 3-6-9-12 On

SATA 1/mSATA Signal Select	JP22
SATA (default)	1-4-7-10 2-5-8-11 On
mSATA	2-5-8-11 3-6-9-12 On

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

Digital I/O Output State: DIO 3/5/7/9 (JP18), DIO 11/13/15/17 (JP20)	
+5V or +5V_standby (default)	1-2 On
GND	2-3 On

SATA DOM Power Select	JP12
GND (default)	1-2 On
+5V	2-3 On

Auto Power-on Select	JP13
Power-on via power button (default)	1-2 On
Power-on via AC power	2-3 On

Dimming Mode Select	JP15
PWM Mode (default)	1-2 On
Voltage Mode	2-3 On

Note:
1. SATA 0 supports SATA DOM.
2. BT101: 12V DC-in jack (default) or 4-pin power connector (optional).
3. BT103: 19~24V DC-in jack (default) or 4-pin power connector (optional).
4. When COM 1 RS232/422/485 is selected, JP9 and JP11 must be set in accordance to JP8.
5. When installing one DDR3L SODIMM only, make sure to install it into the SODIMM 1 socket.

PIN Assignment

▶ COM1 RS232/RS422/RS485

Pin	Assignment	Pin	Assignment
1	MDCD1-/ RS422_RX+ / RS485_D+	2	MSIN1-/ RS422_RX- / RS485_D-
3	MSO1-/RS422_ TX+	4	MDTR1-/ RS422_TX-
5	GND	6	MDSR1-
7	MRTS1-	8	MCTS1-
9	MRI1-	10	--

Battery Usage

The lithium ion battery powers the real-time clock and CMOS memory. It is an auxiliary source of power when the main power is shut off.

Safety Measures

- Danger of explosion if battery incorrectly replaced.
- Replace only with the same or equivalent type recommend by the manufacturer.
- Dispose of used batteries according to local ordinance.

DFI reserves the right to change the specifications at any time prior to the product's release. This QR may be based on the product's revision. For more documentation and drivers, please visit the download page at www.dfi.com/downloadcenter, or via the QR codes to the right.