



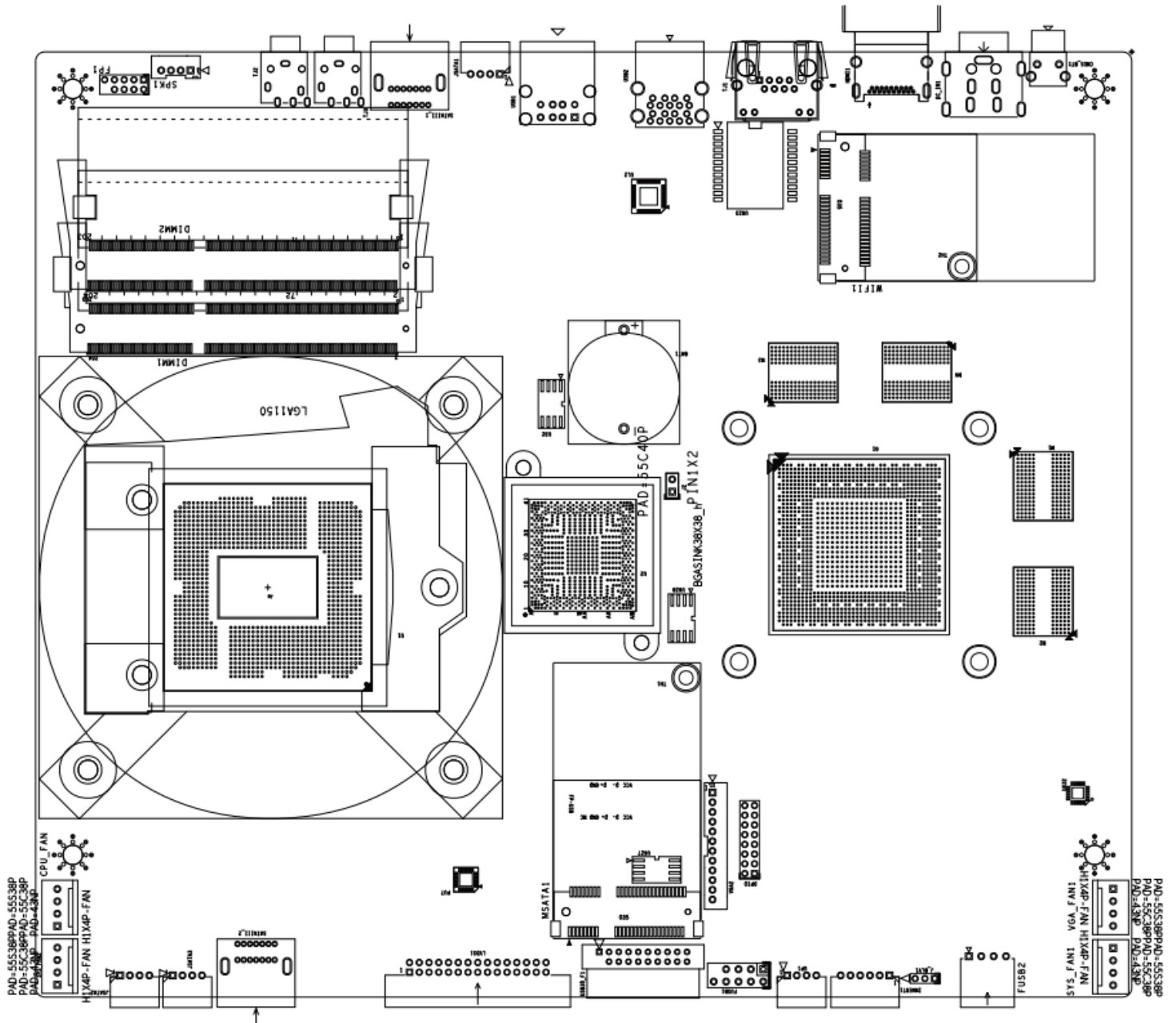
ZA-H8N9 Motherboard

User Manual

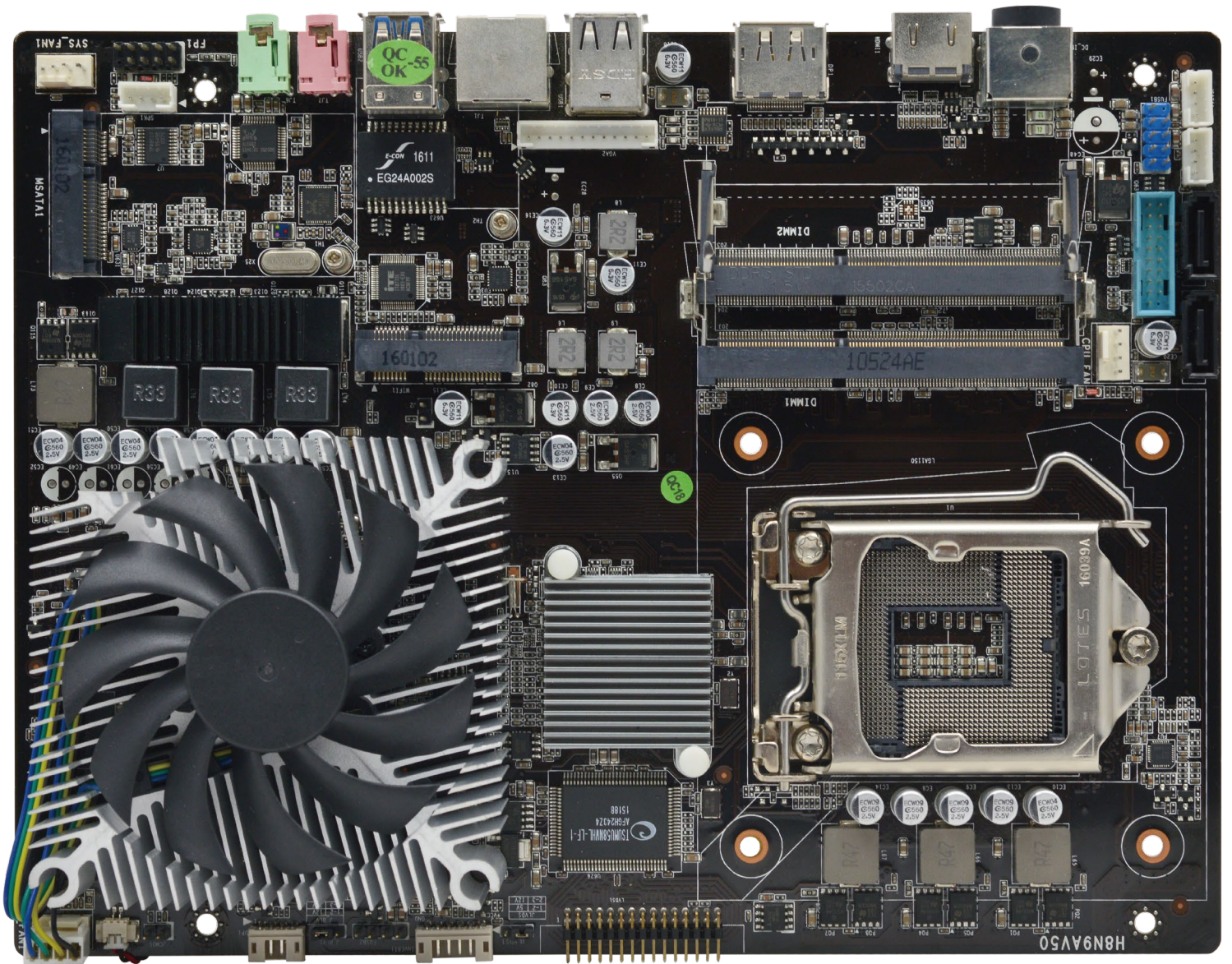
Support Intel[®] Corei7/Corei5/Corei3 Pentium Processor



ZA-H8N9 Motherboard Configuration Diagram



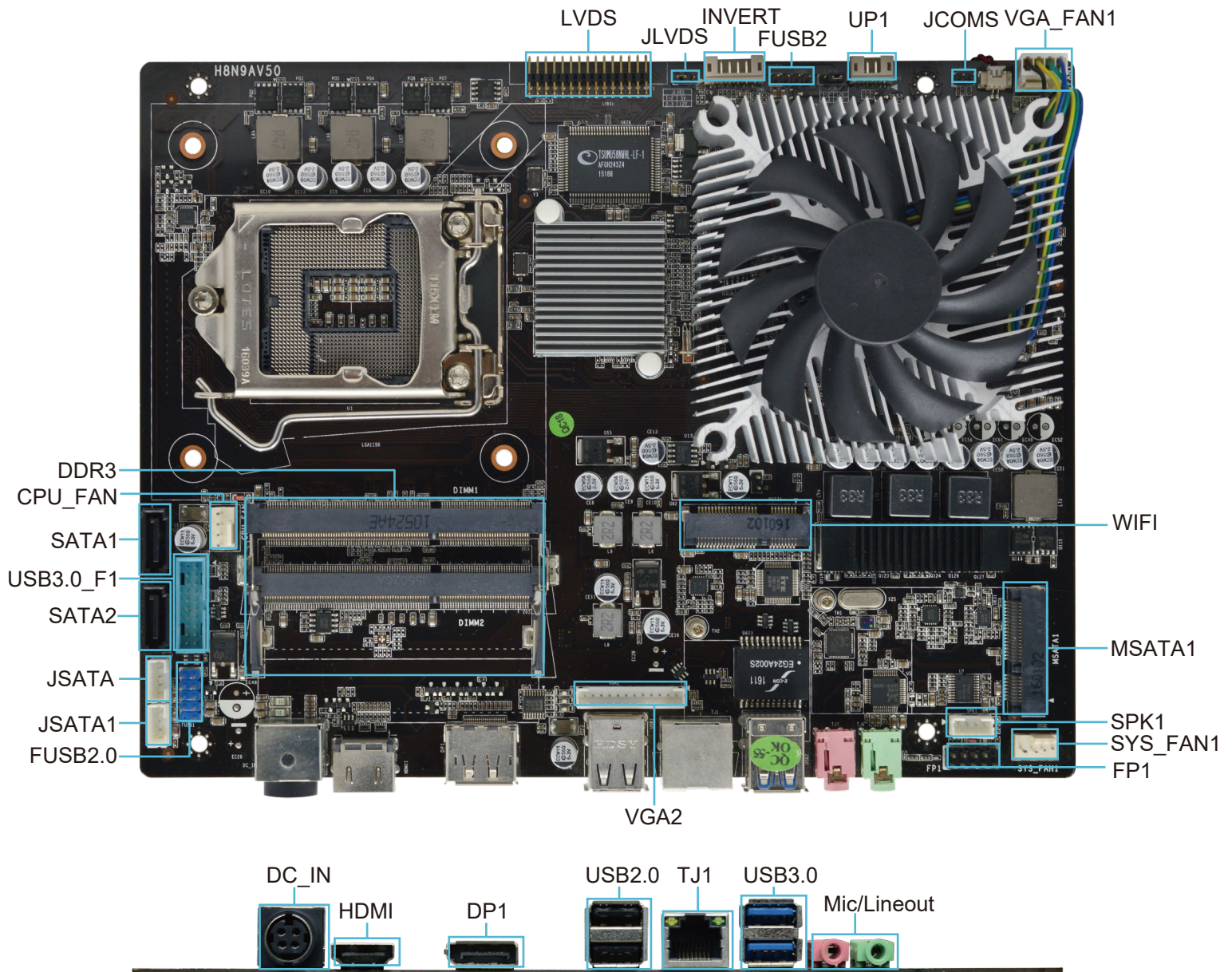
ZA-H8N9 Motherboard Diagram



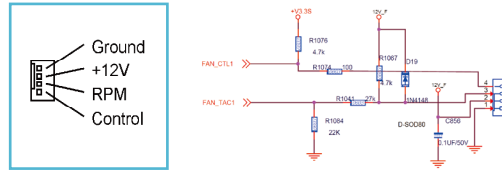
Motherboard Specification

Size	220mm x 170mm
CPU	Support Intel Corei7/Corei5/Corei3 Pentium Processor
Graphics	NVIDIA_GeForce GTX 950Ti
Chipset	B85
Memory	2* DDR3 Slot ,1333/1600MHz,204PIN,SODIMM Slotl,Up to 32GB
Internal I/O	3* USB 2.0 PIN 2*USB3.0 PIN 1* CPU Fan 1* GPU Fan 2*System Fans connector 1*LVDS Pin Support Dual Channel 8Bit 1* VGA PIN 3*SATA 1*Audio Pin Port
Rear I/O	1* DC Power Input (19V) 1* HDMI 1* VGA 2* USB2.0 2* USB3.0 1* LAN 1* Mic-in/Line-out
SATA	3* SATA Port
BIOS AMI	AMIBIOS,64M bit Flash Memory
Display	Support VGA / HDMI / LVDS Three Out put display
MINI_PCIE	1*Support MSATA 1*Support WiFi
Expansion	1*DDR3,1*SATA,1*MSATA
LAN	1*Realtek8111E,10/100/1000M
Audio	ALC662 Dual Channel Output
Operating System	Windows7 Windows8 Windows10 Linux
H/W Monitoring	System Power Management Temperature Management Voltage Management
Humidity	0% ~ 95% (Relative Humidity,No Condensation)
Temp	-10°C ~ 55°C

Motherboard I/O Interface Diagram

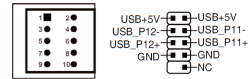


SYS_FAN
CPU_FAN
VGA_FAN



Note: these fan connectors are not jumpers, and the jumper cap is placed above the head.

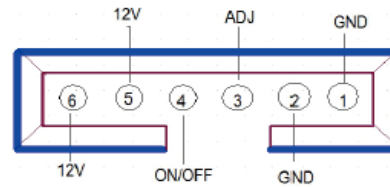
FUSB2.0



F_USB2.0

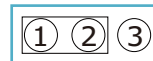
Pin	Define	Pin	Define
1	VCC	2	VCC
3	DATA 0-	4	DATA1-
5	DATA0+	6	DATA1+
7	GND	8	GND
10	GND	9	NC(CUT)

INVERT



Pin	Define	Pin	Define
1	GND	2	GND
3	ON/OFF	4	ADJ
5	12V	6	12V

LVDS



PIN 1-2 Close:
3V

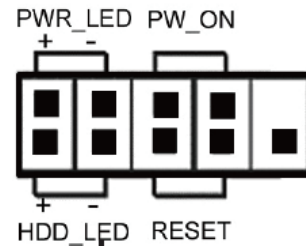
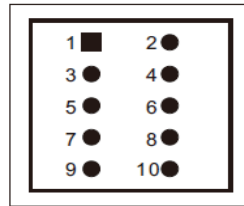


PIN 2-3 Close:
5V

Pin	Define	Pin	Define
1	LCDVDD	2	LCDVDD
3	LCDVDD	4	GND
5	GND	6	GND
7	LVDSA_DATA0N	8	LVDSA_DATA0P
9	LVDSA_DATA1N	10	LVDSA_DATA1P
11	LVDSA_DATA2N	12	LVDSA_DATA2P
13	GND	14	GND
15	LVDSA_CLKN	16	LVDSA_CLKP
17	LVDSA_DATA3N	18	LVDSA_DATA3P
19	LVDSB_TX0N	20	LVDSB_TX0P
21	LVDSB_TX1N	22	LVDSB_TX1P
23	LVDSB_TX2N	24	LVDSB_TX2P
25	GND	26	GND
27	LVDSB_CLKN	28	LVDSB_CLKP
29	LVDSB_TX3N	30	LVDSB_TX3P

(Power supply option for LVDS display board)

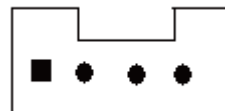
FP1



Pin	Define	Pin	Define
1	HDD LED+	2	PWR LED+
3	HDD LED-	4	GND
5	GND	6	P_SWIN
7	RESET_GND	8	GND
9	GND		

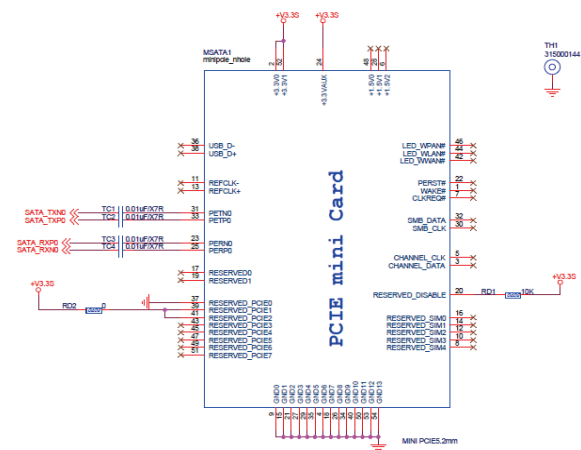
HDD Active LED:1,3 Power Button:6,8
 Power LED:2,4 Reset Button:5,7

JSATA1
 JSATA2



1 2 3 4
 +5V 2. GND 3.GND 4.+12V

MSATA

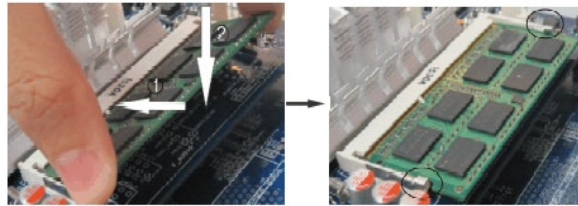


DDR3

Installation memory:

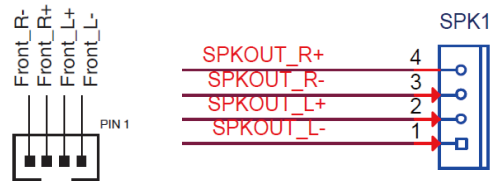
1. Please turn off the power before installing or removing the memory, and dial down the AC power cord.
2. Carefully hold both ends of the memory stick, and do not touch the metal contact above.
3. Align the gold fingers of the memory stick with the memory stick slot, and pay attention to the convex point of the gold finger socket to the upper slot in the direction;
4. Insert the memory stick 30 degrees into the memory slot, and then press the memory stick down to the sound of "click"
The memory has been installed successfully and can be used (note: press down the memory bar to avoid damaging the memory too much)

Memory installation diagram (for reference only) :



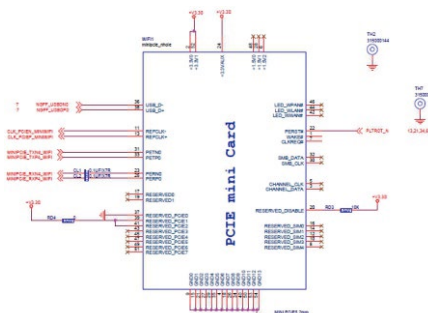
Note: static electricity damages electronic components of a computer or memory, so before following these steps, Be sure to touch the grounded metal objects briefly to remove static electricity from your body.

SPK1



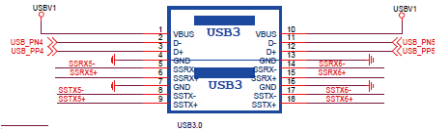
Pin	Define	Pin	Define
1	SPKOUT_L-	2	SPKOUT_L+
3	SPKOUT_R-	4	SPKOUT_R+

WIFI

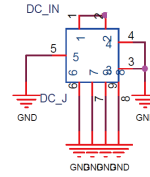
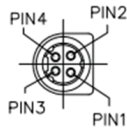


Note: when installing this card, please insert the card at an Angle of 30 degrees, then press down to the stud and fix it with screws.

USB3.0
USB3.0

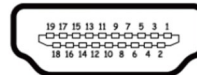


19VDC



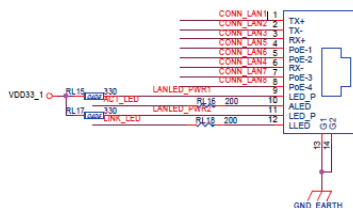
Pin	Define	Pin	Define
1	DC_IN	2	DC_J
3	GND	4	GND
5	GND	6	GND
7	GND	8	GND
9	GND		

HDMI

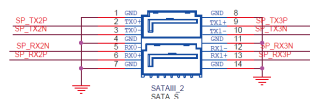
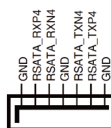


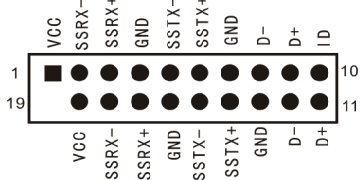
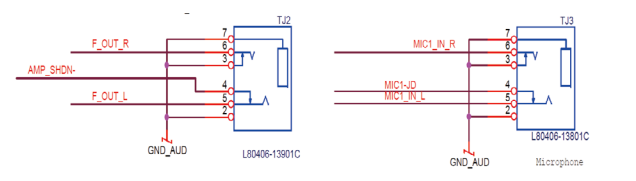
Pin	Define	Pin	Define
1	TMDS data 2+	2	TMDS data shield
3	TMDS data 2-	4	TMDS data 1+
5	TMDS data shield	6	TMDS data 2-
7	TMDS data 0+	8	TMDS data shield
9	TMDS data 0-	10	TMDS clock+
11	TMDS clock shield	12	TMDS clock-
13	CEC	14	No connectde
15	DDC clock	16	DDC data
17	Groud	18	+5V power
19	Hot plug detect		

RJ45



SATA1
SATA2



<p style="text-align: center;">USB3.0_F1</p>	<div style="text-align: center;">  </div> <table border="1" style="margin: 10px auto; border-collapse: collapse; width: 80%;"> <thead> <tr> <th>Pin</th><th>Define</th><th>Pin</th><th>Define</th></tr> </thead> <tbody> <tr><td>1</td><td>VCC</td><td>2</td><td>SSRX-</td></tr> <tr><td>3</td><td>SSRS+</td><td>4</td><td>GND</td></tr> <tr><td>5</td><td>SSTX-</td><td>6</td><td>SSTX+</td></tr> <tr><td>7</td><td>GND</td><td>8</td><td>D-</td></tr> <tr><td>9</td><td>D+</td><td>10</td><td>ID</td></tr> <tr><td>11</td><td>D+</td><td>12</td><td>D-</td></tr> <tr><td>13</td><td>GND</td><td>14</td><td>SSTX+</td></tr> <tr><td>15</td><td>SSTX-</td><td>16</td><td>GND</td></tr> <tr><td>17</td><td>SSRS+</td><td>18</td><td>SSRX-</td></tr> <tr><td>19</td><td>VCC</td><td></td><td></td></tr> </tbody> </table>	Pin	Define	Pin	Define	1	VCC	2	SSRX-	3	SSRS+	4	GND	5	SSTX-	6	SSTX+	7	GND	8	D-	9	D+	10	ID	11	D+	12	D-	13	GND	14	SSTX+	15	SSTX-	16	GND	17	SSRS+	18	SSRX-	19	VCC		
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*Other Matters Please consult the sales.