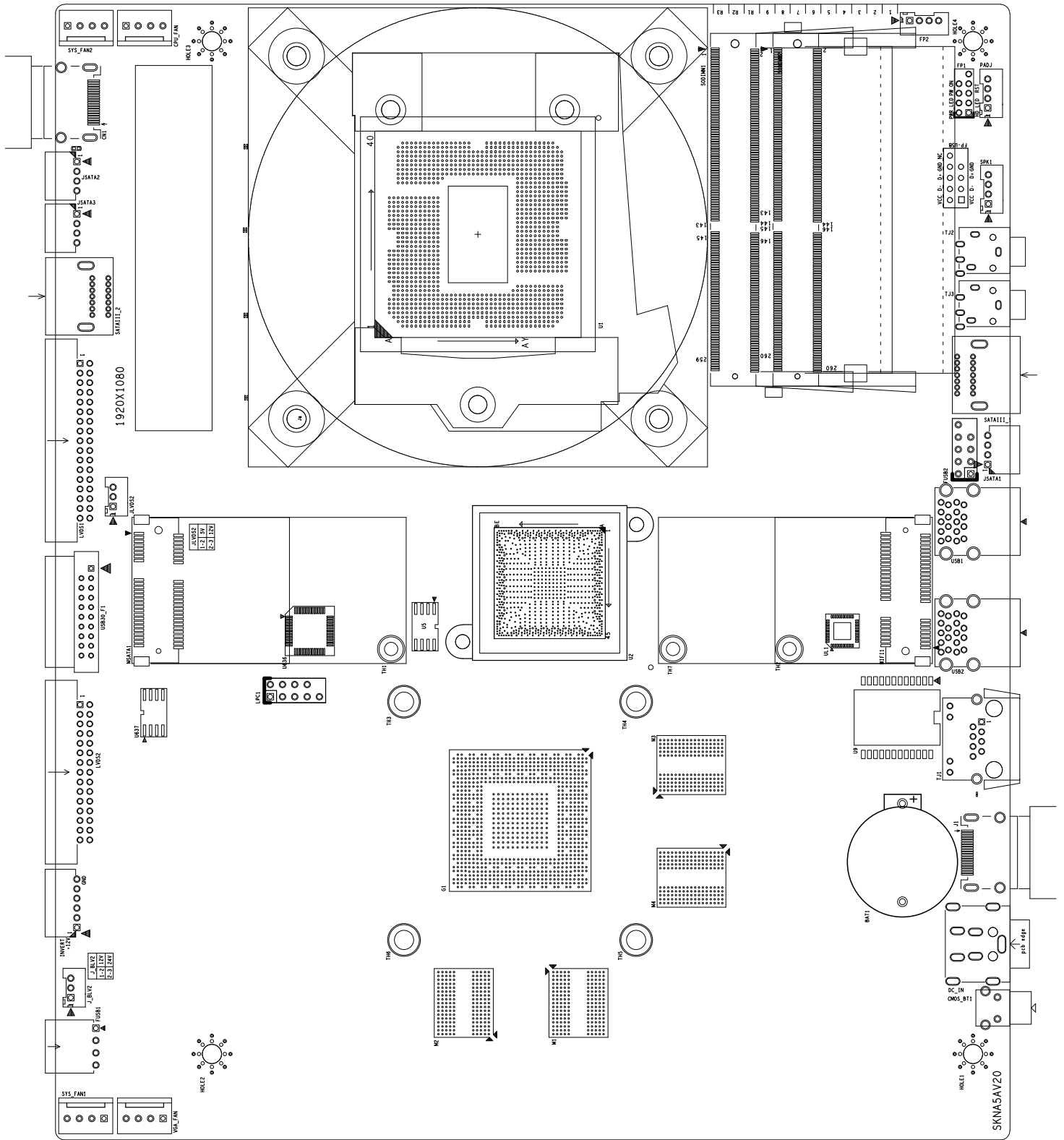


ZA-SK1050 2L4C Motherboard

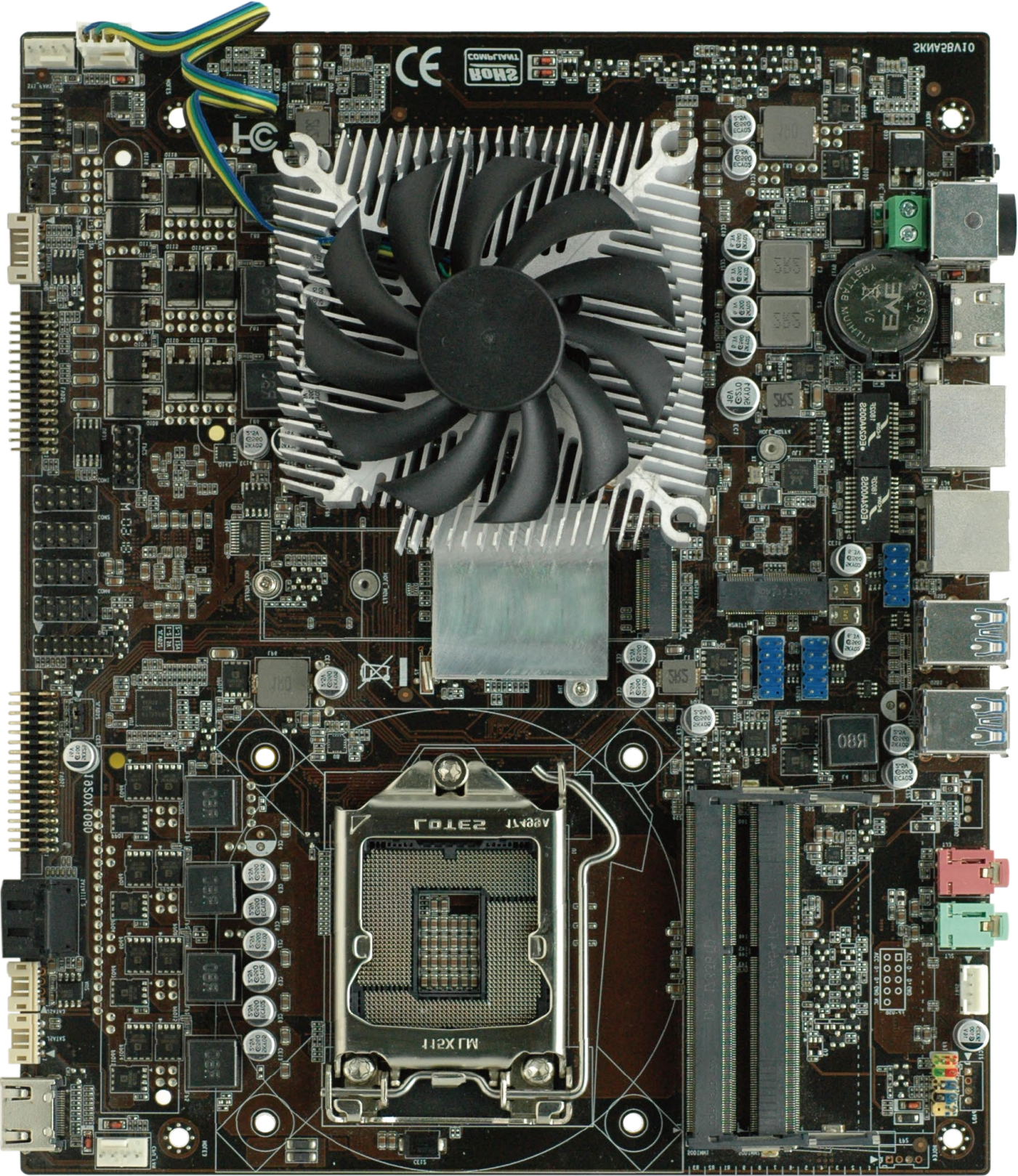
User Manual

Support Intel[®] 6th/7th Corei7/Corei5/Corei3 Processor

ZA-SK1050 2L4C Motherboard Configuration Diagram



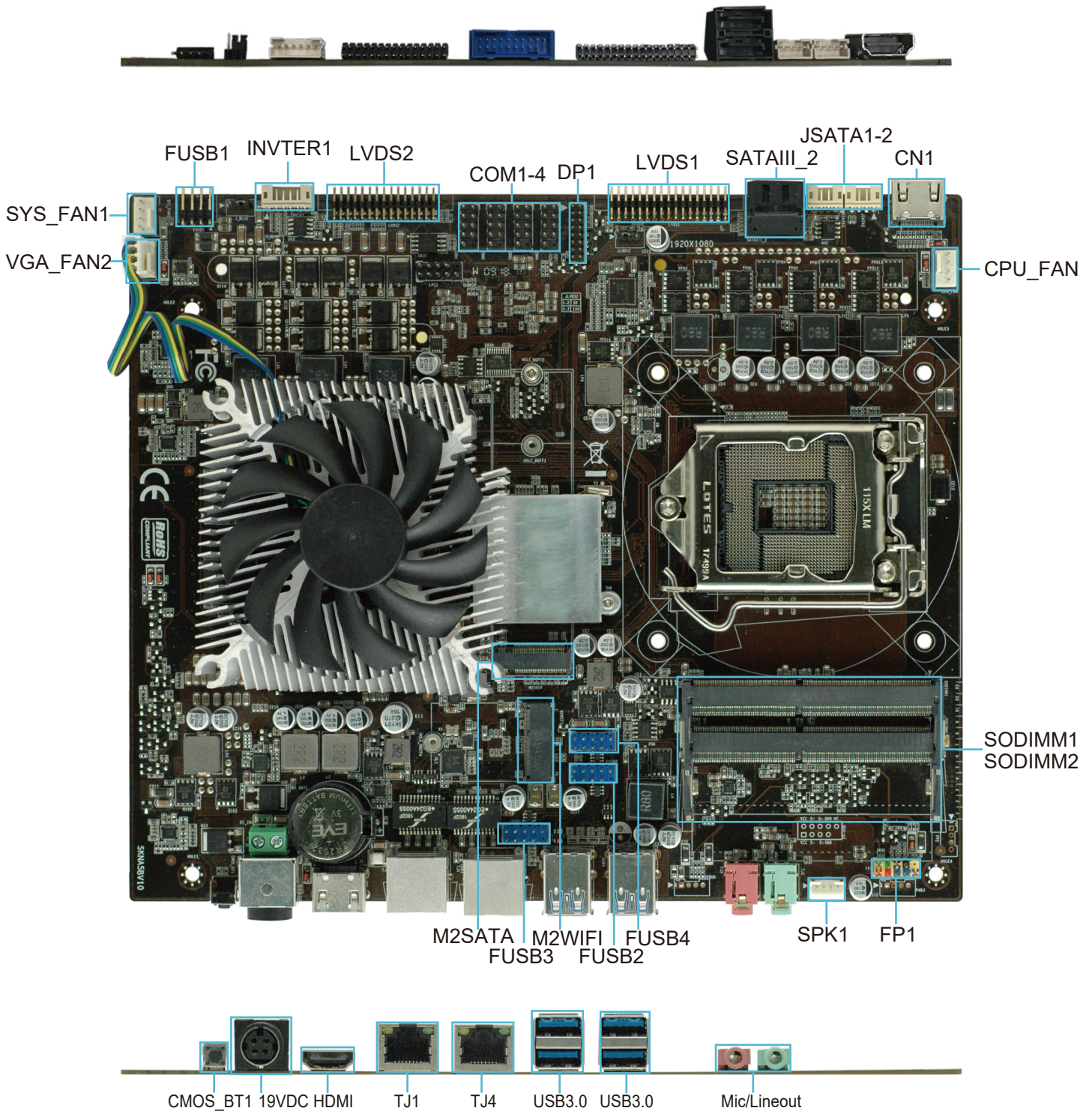
ZA-SK1050 2L4C Motherboard Diagram



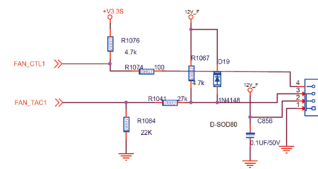
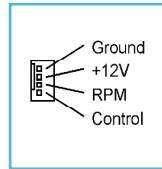
Motherboard Specification

Size	235mm x 197.5mm
CPU	Support Intel® 6th/7th Core i7 i5 i3 Processor
Graphics	NVIDIA GTX1050Ti
Chipset	B150
Memory	2*DDR4 2133MHZ,Up to 32GB
Internal I/O	4*USB2.0 Pin 7*USB Port 1* CPU Fan And GPU Fan 1*SYS Fan 2*LVDS Pin(support dual Channel 10 Bit) 4*SATA 4*COM 1*Front panel Pin 1*Audio Pin Port (2W/CH)
Rear I/O	1* DC Power Input (19V) 1*HDMI 1*LAN 2*SATA 2*JSATA 4*USB3.0 1* Mic-in/Line-out
BIOS AMI	AMIBIOS,64M bit Flash Memory
MINI_PCIE	1*Support Msata 1*Support WiFi
SATA	4*SATA
LAN	2*Realtek 8111E,10/100/1000
Audio	ALC662 Dual Channel Output
Operating System	Windows7 Windows8 Windows10 Linux
H/W Monitoring	Walk in LAN System Power Management Temperature Management Voltage Management
Humidity	0% ~ 95% (Relative Humidity,No Condensation)
Temp	-10°C ~ 55°C

Motherboard I/O Interface Diagram



CPU_FAN
GPU_FAN2
SYS_FAN1



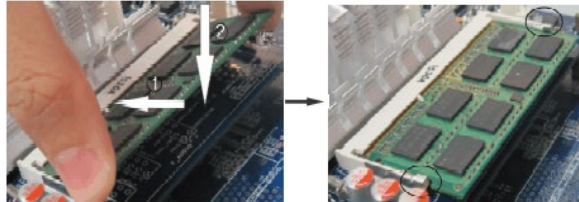
Note: these fan connectors are not jumpers, and the jumper cap is placed above the head.

DDR4

Installation memory:

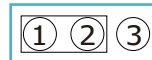
1. Please turn off the power before installing or removing the memory, and dial down the AC power cord.
2. Carefully hold both ends of the memory stick, and do not touch the metal contact above.
3. Align the gold fingers of the memory stick with the memory stick slot, and pay attention to the convex 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.

LVDS2



PIN 1-2 Close: 3V

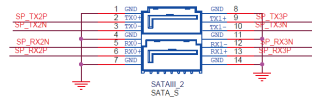
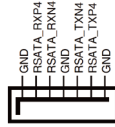


PIN 2-3 Close: 5V

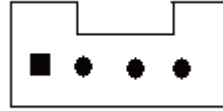
接脚	接脚定义	接脚	接脚定义
1	LCDVDD	2	LCDVDD
3	LCDVDD	4	GND
5	GND	6	GND
7	LVDSA_DATA0N	8	LVDSA_DATA0P
9	LVDSA_DATA1N	10	LVDSA_DATA1P
11	LVDSA_DATA2N	12	LVDSA_DATA2P
13	GND	14	GND
15	LVDSA_CLKN	16	LVDSA_CLKP
17	LVDSA_DATA3N	18	LVDSA_DATA3P
19	LVDSB_TX0N	20	LVDSB_TX0P
21	LVDSB_TX1N	22	LVDSB_TX1P
23	LVDSB_TX2N	24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

(LVDS显示屏电路板供电选项)

SATAIII_1
SATAIII_2



JSATA2
JSATA3



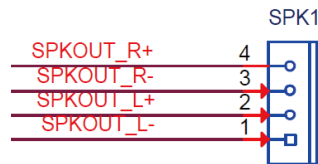
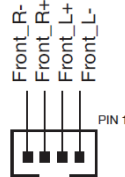
1 2 3 4
+5V 2. GND 3. GND 4. +12V

LPC



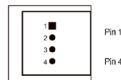
Note: this port belongs to the debugging port of the main board and cannot be used for other ports.

SPK1



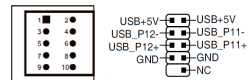
Pin	Define	Pin	Define
1	SPKOUT_L-	2	SPKOUT_L+
3	SPKOUT_R-	4	SPKOUT_R+

FUSB1
FUSB2-4



F_USB1

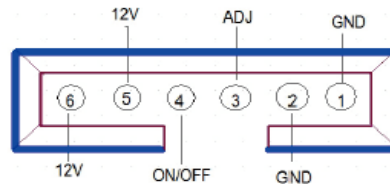
Pin	Define
1	VCC
2	DATA 0-
3	DATA 0+
4	GND



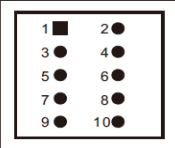
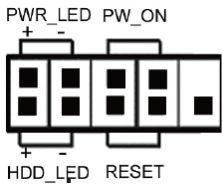
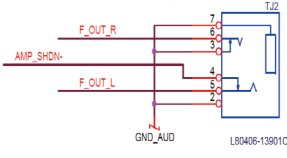
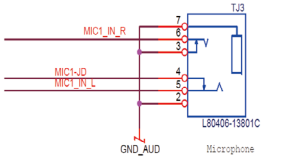
F_USB2-4

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

INVERT



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

<p style="text-align: center;">FP1</p>	<div style="display: flex; justify-content: space-around; align-items: center;">   </div> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Pin</th> <th>Define</th> <th>Pin</th> <th>Define</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HDD LED+</td> <td>2</td> <td>PWR LED+</td> </tr> <tr> <td>3</td> <td>HDD LED-</td> <td>4</td> <td>GND</td> </tr> <tr> <td>5</td> <td>GND</td> <td>6</td> <td>P_SWIN</td> </tr> <tr> <td>7</td> <td>RESET_GND</td> <td>8</td> <td>GND</td> </tr> <tr> <td>9</td> <td>GND</td> <td></td> <td></td> </tr> </tbody> </table> <p style="text-align: center; margin-top: 20px;"> HDD Active LED:1,3 Power Button:6,8 Power LED:2,4 Reset Button:5,7 </p>	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		
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7	RESET_GND	8	GND																						
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<p style="text-align: center;">Mic-in/Line-out</p>	<div style="display: flex; justify-content: space-around; align-items: center;">   </div>																								

*Other Matters Please consult the sales.