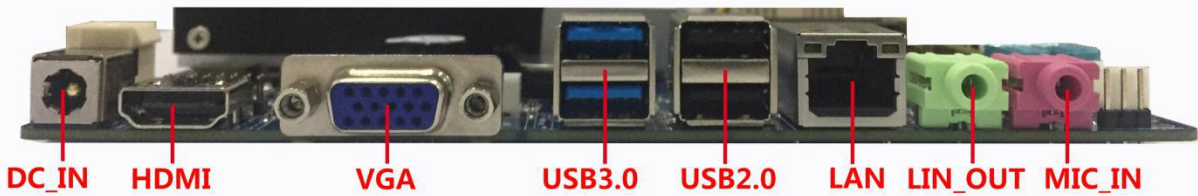
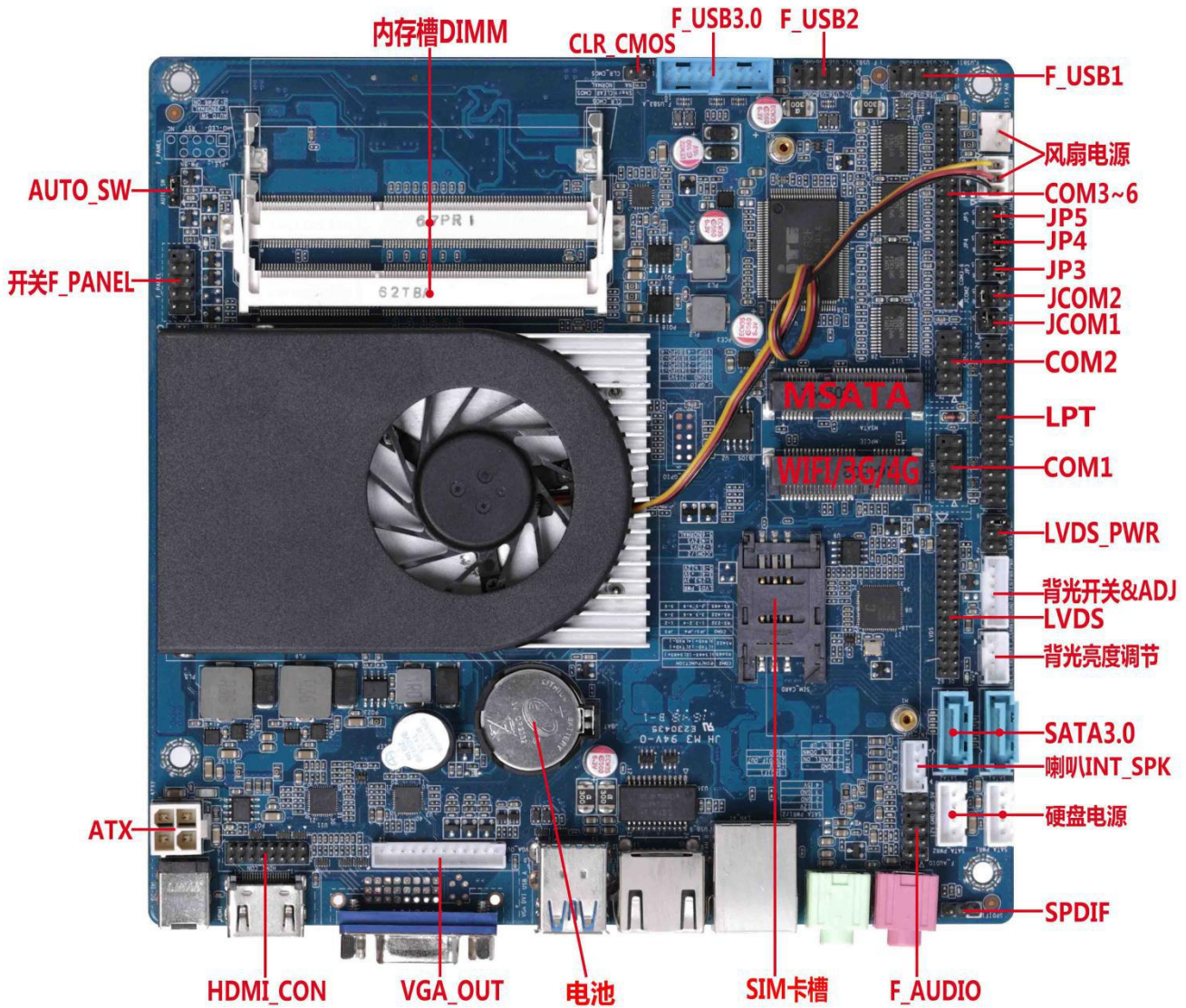


QM9600,QM9700 Motherboard Spec.

Pictures:



### Main Features:

1. Supporting 6th Gen.processors,Intel Skylake platform,Celeron 3855U,3955U,Core i3/i5/i7;
2. Supporting 7th Gen.processors,Intel Kaby lake platform, Celeron 3865U,3965U,Core i3/i5/i7;
3. HDMI 1.4 output support 4K display;
4. High speed,supports 2\*DDR3 1600/1866 low voltage(1.35V) dual memories;
5. Supporting HDMI+VGA (or DVI)+LVDS three screens display,  
also supports synchronous,asynchronous display;
6. On-board 6\*COM interfaces,support to take the electric 5V,12V from COM interface,  
also supports 1\*RS485;
7. On-board 1\*Mini-PCIE,supports Wifi/3G/4G,1\*MSATA,supports MSATA hard disk;
8. 1\*1000M LAN(RJ45),or choosing 2\*1000M LAN;
9. Supporting dual 8,24 bit LVDS.

QM9600 Motherboard Series				
Model	LAN(RJ45)	COM	USB2.0	USB3.0
QM9600-2C	1	2	6	4
QM9600-2L2C	2	2	4	4
QM9600-6C	1	6	6	4
QM9600-2L6C	2	6	4	4

QM9700 Motherboard Series				
Model	LAN(RJ45)	COM	USB2.0	USB3.0
QM9700-2C	1	2	6	4
QM9700-2L2C	2	2	4	4
QM9700-6C	1	6	6	4
QM9700-2L6C	2	6	4	4

QM9600 motherboard supports SSD interfaces	
CPU	SSD Interfaces
3855U	1*SATA3.0 , 1*MSATA3.0
3955U	1*SATA3.0 , 1*MSATA3.0
I3-6100U	2*SATA3.0 , 1*MSATA3.0
I5-6200U	2*SATA3.0 , 1*MSATA3.0
I7-6500U	2*SATA3.0 , 1*MSATA3.0

QM9700 motherboard supports SSD interfaces	
CPU	SSD Interfaces
3865U	1*SATA3.0 , 1*MSATA3.0
3965U	1*SATA3.0 , 1*MSATA3.0
I3-7100U	2*SATA3.0 , 1*MSATA3.0
I5-7200U	2*SATA3.0 , 1*MSATA3.0
I7-7500U	2*SATA3.0 , 1*MSATA3.0

### QM9600,QM9700 motherboard Spec.

Intel Processors	QM9600 motherboard supports 3855U,3955U,I3-6100U,I5-6200U,I7-6500U,etc. QM9700 motherboard supports 3865U,3965U,I3-7100U,I5-7200U,I7-7500U,etc.
Form Factor(Size)	Mini-ITX,170*170*18mm(L*W*H)
Chip set	Integrating Intel Soc chip set in CPU.
Memory	2*SO-DDR3L 1600/1866 low voltage(1.35V) dual memories,supports Max.16GB RAM.
Display Interfaces	Integrating HD510/HD610 GPU; Supporting Dynamic Memory Allocation(DVMT); Supporting HDMI,VGA,LVDS display interfaces; Supporting three screens to display; HDMI display interfaces support 4K resolution display; Supporting dual 8,24 bit LVDS.
Hard Disk interfaces	2*SATA3.0 , 1*MSATA3.0
Network Interface	1*Realtek8111F 1000M RJ45 LAN; Supporting Wake On LAN(WOL); Having 2*1000M LAN to choose.
Audio Interface	Integrating Realtek ALC662 HD digital audio decoder; Supporting Line-Out,Mic-In interfaces,and have front pin on board; Supporting 3W/5W power amplifier speaker.
I/O Expansion	4*USB3.0 , 6*USB2.0 , 6*RS232 COM , 1*RS485; Supporting to take the electric 5V/12V from COM interface.
Expansion Bus	2*Mini PCI-Express slots,supports optional WIFI/3G/GPS/MSATA.
System Monitor / Watch dog	Supporting CPU temperature monitor, fan speed,system temperature.
Operating Environment	Working temperature :-10~60°C Relative humidity:5%~95%,non-condensation.
Power Supply	DC 12V or 19V power adapter.
BIOS	AMI BIOS,support read only;Power switch,timer switch,remote switch equipment Intelligent identification.
Operating System	Windows 7(64bit,32bit),Windows 8,Windows 10,Linux.
Chassis	HD4000,HD4001,IPC6000

### QM9600 motherboard supports these processors:

Processor Number	Intel Brand	Code Name	Cores	Threads	Processor Base Frequency (GHz)	Max. Turbo Frequency (GHz)	4K Support?
3855U	Celeron	Skylake	2	2	1.6		Yes, at 60Hz
3955U	Celeron	Skylake	2	2	2		Yes, at 60Hz
I3-6100U	6th Gen.Core i3	Skylake	2	4	2.3		Yes, at 60Hz
I5-6200U	6th Gen.Core i5	Skylake	2	4	2.3	2.8	Yes, at 60Hz
I7-6500U	6th Gen.Core i7	Skylake	2	4	2.5	3.1	Yes, at 60Hz

**QM9700 motherboard supports these Intel processors:**

Processor Number	Intel Brand	Code Name	Cores	Threads	Processor Base Frequency (GHz)	Max. Turbo Frequency (GHz)	4K Support?
3865U	Celeron	Kaby Lake	2	2	1.8		Yes, at 60Hz
3965U	Celeron	Kaby Lake	2	2	2.2		Yes, at 60Hz
i3-7100U	7th Gen.Core i3	Kaby Lake	2	4	2.4		Yes, at 60Hz
i5-7200U	7th Gen.Core i5	Kaby Lake	2	4	2.5	3.1	Yes, at 60Hz
i7-7500U	7th Gen.Core i7	Kaby Lake	2	4	2.7	3.5	Yes, at 60Hz

**Hardware Features:**

**Audio Description**

Audio Decoder	Realtek ALC662																								
On-board Audio Pin	<table border="1"> <thead> <tr> <th>Pin#</th> <th>Signal</th> <th>Pin#</th> <th>Signal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MIC2_L</td> <td>2</td> <td>AGND</td> </tr> <tr> <td>3</td> <td>MIC2_R</td> <td>4</td> <td>-ACZ_DET_F</td> </tr> <tr> <td>5</td> <td>LINE2_R</td> <td>6</td> <td>Mic2-JD</td> </tr> <tr> <td>7</td> <td>FAUDIO_JD</td> <td>8</td> <td></td> </tr> <tr> <td>9</td> <td>LINE2_L</td> <td>10</td> <td>Line2-JD</td> </tr> </tbody> </table>	Pin#	Signal	Pin#	Signal	1	MIC2_L	2	AGND	3	MIC2_R	4	-ACZ_DET_F	5	LINE2_R	6	Mic2-JD	7	FAUDIO_JD	8		9	LINE2_L	10	Line2-JD
Pin#	Signal	Pin#	Signal																						
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5	LINE2_R	6	Mic2-JD																						
7	FAUDIO_JD	8																							
9	LINE2_L	10	Line2-JD																						
Pin Type	2.54mm 2*5pin header																								
Built-in Power Amplifier Pin(JAMP)	<table border="1"> <thead> <tr> <th>Pin</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Signal</td> <td>L+</td> <td>L-</td> <td>R-</td> <td>R+</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>1 ■</td> <td>2 ●</td> <td>3 ●</td> <td>4 ●</td> </tr> </tbody> </table>	Pin	1	2	3	4	Signal	L+	L-	R-	R+	1 ■	2 ●	3 ●	4 ●										
Pin	1	2	3	4																					
Signal	L+	L-	R-	R+																					
1 ■	2 ●	3 ●	4 ●																						

**LAN Description**

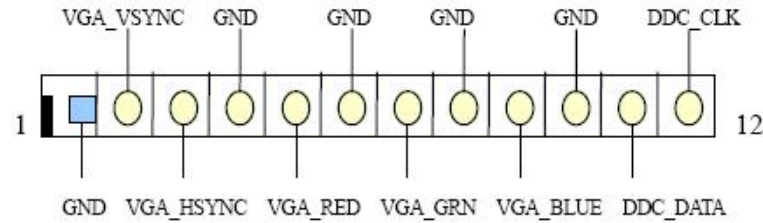
Network Card Chip	Realtek RTL8111F
Function	10/100/1000Mbps self-adaptive,supports PXE boot and remote wake on Internet.
Interface type	RJ45
Network adapter led definition	self-defined

### Graphics Card Description

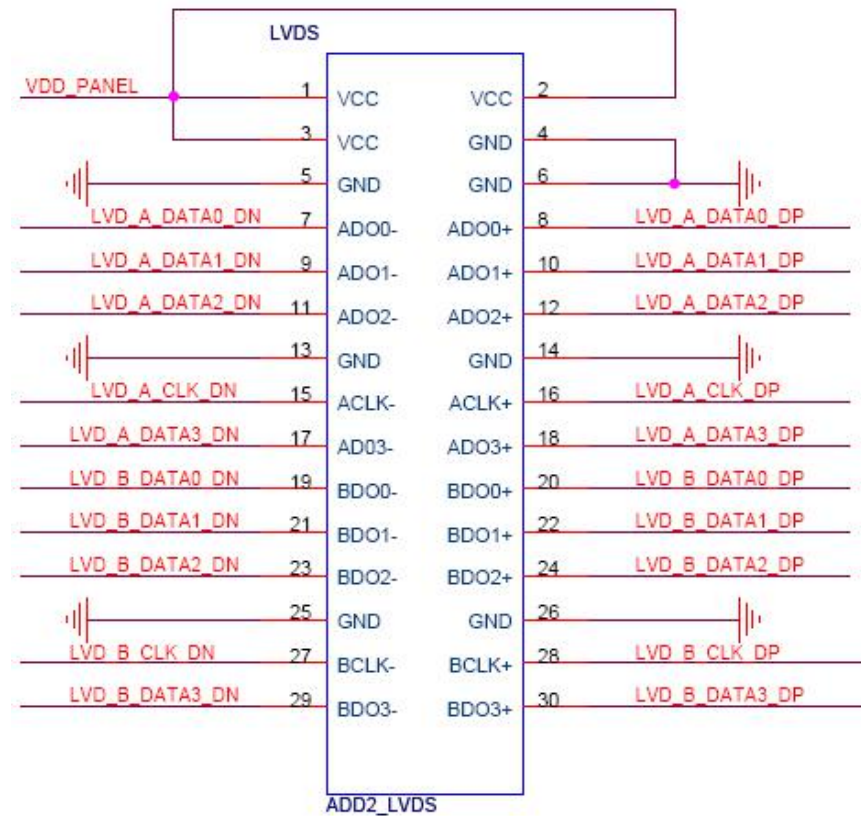
GPU	HD Graphics (Sandy Bridge)
Interface types	VGA(DB15 Port),HDMI,LVDS(1*30 pin socket,24 bit dual channels).
Display	Supporting dual displays (copy mode,expansion mode),DOS single display.

#### Interface Definition

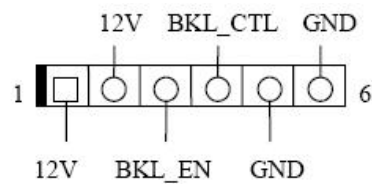
##### 1\*12PIN VGA Pin Header Definition:



##### 1\*30 PIN LVDS Connector Pin Definition:

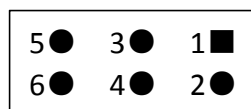


##### Backlight Power Interface Definition:



##### Working voltage selects pin(VCC\_SEL):

Pin	Define
1-2	3.3V
3-4	5V
5-6	12V



USB2.0 Description																					
Interface Type	USB2.0/1.1 interface																				
Rear interface	2																				
Front pin	USB PIN Definition: <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>1. VCC</td> <td>2. VCC</td> <td>1 ■</td> <td>2 ●</td> </tr> <tr> <td>3. DATA0-</td> <td>4. DATA1-</td> <td>3 ●</td> <td>4 ●</td> </tr> <tr> <td>5. DATA0+</td> <td>6. DATA1+</td> <td>5 ●</td> <td>6 ●</td> </tr> <tr> <td>7. GND</td> <td>8. GND</td> <td>7 ●</td> <td>8 ●</td> </tr> <tr> <td>9. NC(CUT)</td> <td>10. GND</td> <td>9 ●</td> <td>10 ●</td> </tr> </table>	1. VCC	2. VCC	1 ■	2 ●	3. DATA0-	4. DATA1-	3 ●	4 ●	5. DATA0+	6. DATA1+	5 ●	6 ●	7. GND	8. GND	7 ●	8 ●	9. NC(CUT)	10. GND	9 ●	10 ●
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9. NC(CUT)	10. GND	9 ●	10 ●																		
Interface&Pin Type	2*5Pin header/2.54mm																				

USB3.0 Description																																																																
Interface Type	USB3.0 Interface																																																															
Rear interface	2																																																															
Front pin	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Pin#</th> <th>Signal</th> <th>Pin#</th> <th>Signal</th> </tr> </thead> <tbody> <tr><td>1</td><td>USB3.0_VCC</td><td>20</td><td>NC</td></tr> <tr><td>2</td><td>USB3_RX4N</td><td>19</td><td>USB3.0_VCC</td></tr> <tr><td>3</td><td>USB3_RX4P</td><td>18</td><td>USB3_RX3N</td></tr> <tr><td>4</td><td>GND</td><td>17</td><td>USB3_RX3P</td></tr> <tr><td>5</td><td>USB3_TX4N</td><td>16</td><td>GND</td></tr> <tr><td>6</td><td>USB3_TX4P</td><td>15</td><td>USB3_TX3N</td></tr> <tr><td>7</td><td>GND</td><td>14</td><td>USB3_TX3P</td></tr> <tr><td>8</td><td>USBPN3</td><td>13</td><td>GND</td></tr> <tr><td>9</td><td>USBPP3</td><td>12</td><td>USBPN2</td></tr> <tr><td>10</td><td>NC</td><td>11</td><td>USBPP2</td></tr> </tbody> </table> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>11 ●</td><td>12 ●</td><td>13 ●</td><td>14 ●</td><td>15 ●</td><td>16 ●</td><td>17 ●</td><td>18 ●</td><td>19 ●</td> </tr> <tr> <td>10 ●</td><td>9 ●</td><td>8 ●</td><td>7 ●</td><td>6 ●</td><td>5 ●</td><td>4 ●</td><td>3 ●</td><td>2 ●</td><td>1 ■</td> </tr> </table>	Pin#	Signal	Pin#	Signal	1	USB3.0_VCC	20	NC	2	USB3_RX4N	19	USB3.0_VCC	3	USB3_RX4P	18	USB3_RX3N	4	GND	17	USB3_RX3P	5	USB3_TX4N	16	GND	6	USB3_TX4P	15	USB3_TX3N	7	GND	14	USB3_TX3P	8	USBPN3	13	GND	9	USBPP3	12	USBPN2	10	NC	11	USBPP2	11 ●	12 ●	13 ●	14 ●	15 ●	16 ●	17 ●	18 ●	19 ●	10 ●	9 ●	8 ●	7 ●	6 ●	5 ●	4 ●	3 ●	2 ●	1 ■
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Hard Disk Interface Description											
Interface Type	1*SATA3.0 Port										
HDD Power Supply Interface definition (SATA PWR)	<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Pin#</th> <th>Signal</th> </tr> </thead> <tbody> <tr><td>1</td><td>12V</td></tr> <tr><td>2</td><td>GND</td></tr> <tr><td>3</td><td>GND</td></tr> <tr><td>4</td><td>5V</td></tr> </tbody> </table>	Pin#	Signal	1	12V	2	GND	3	GND	4	5V
Pin#	Signal										
1	12V										
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3	GND										
4	5V										

COM Description																																																																																					
COM Function	<p>6*COM. The first 9 pin of COM1/2 can change the jumper cap setting through JCOM1/JCOM2, and selecting the ninth pin to output + 5V or + 12V voltage.</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr> <th>JPCOM1</th> <th>The first 9 pin of COM1 (Charged)</th> </tr> <tr> <td>1-2</td> <td>5V</td> </tr> <tr> <td>3-4</td> <td>12V</td> </tr> <tr> <td>5-6</td> <td>Normal</td> </tr> </table> <table border="1" style="display: inline-table;"> <tr> <th>JPCOM2</th> <th>The first 9 pin of COM2 (Charged)</th> </tr> <tr> <td>1-2</td> <td>5V</td> </tr> <tr> <td>3-4</td> <td>12V</td> </tr> <tr> <td>5-6</td> <td>Normal</td> </tr> </table>	JPCOM1	The first 9 pin of COM1 (Charged)	1-2	5V	3-4	12V	5-6	Normal	JPCOM2	The first 9 pin of COM2 (Charged)	1-2	5V	3-4	12V	5-6	Normal																																																																				
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COM1/2 Pin definition	<p><b>Full signals RS232, 2* 5PIN (Standard RS232):</b></p> <table border="1"> <thead> <tr> <th>Pin#</th> <th>Signal</th> <th>Pin#</th> <th>Signal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>DCD1_R</td> <td>2</td> <td>RXD1_R</td> </tr> <tr> <td>3</td> <td>TXD_R</td> <td>4</td> <td>DTR1_R</td> </tr> <tr> <td>5</td> <td>GND</td> <td>6</td> <td>DSR1_R</td> </tr> <tr> <td>7</td> <td>RTS1_R</td> <td>8</td> <td>CTS1_R</td> </tr> <tr> <td>9</td> <td>RI1_R</td> <td>10</td> <td></td> </tr> </tbody> </table>	Pin#	Signal	Pin#	Signal	1	DCD1_R	2	RXD1_R	3	TXD_R	4	DTR1_R	5	GND	6	DSR1_R	7	RTS1_R	8	CTS1_R	9	RI1_R	10																																																													
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Power Supply Type&Mode	YES, it has.																																																																																				

Pin&Interface Type	2*5pin																																												
COM 2-RS485 Setting	<table border="1"> <thead> <tr> <th>COM2</th> <th colspan="2">JP3</th> <th colspan="2">JP4</th> <th>JP5</th> </tr> </thead> <tbody> <tr> <td>RS232</td> <td>1-3</td> <td>2-4</td> <td>1-3</td> <td>2-4</td> <td>1-2</td> </tr> <tr> <td>RS422</td> <td>3-5</td> <td>4-6</td> <td>3-5</td> <td>4-6</td> <td>3-4</td> </tr> <tr> <td>RS485</td> <td>3-5</td> <td>4-6</td> <td>3-5</td> <td>4-6</td> <td>5-6</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>COM2</th> <th colspan="2">PIN</th> <th>COM2</th> </tr> </thead> <tbody> <tr> <td>RS485</td> <td>1(TXD)</td> <td>2(RXD)</td> <td>RS485</td> </tr> <tr> <td>RS422</td> <td>1(TXD-)</td> <td>2(TXD+)</td> <td>RS422</td> </tr> <tr> <td></td> <td>3(RXD+)</td> <td>4(RXD-)</td> <td></td> </tr> </tbody> </table>					COM2	JP3		JP4		JP5	RS232	1-3	2-4	1-3	2-4	1-2	RS422	3-5	4-6	3-5	4-6	3-4	RS485	3-5	4-6	3-5	4-6	5-6	COM2	PIN		COM2	RS485	1(TXD)	2(RXD)	RS485	RS422	1(TXD-)	2(TXD+)	RS422		3(RXD+)	4(RXD-)	
COM2	JP3		JP4		JP5																																								
RS232	1-3	2-4	1-3	2-4	1-2																																								
RS422	3-5	4-6	3-5	4-6	3-4																																								
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RS485	1(TXD)	2(RXD)	RS485																																										
RS422	1(TXD-)	2(TXD+)	RS422																																										
	3(RXD+)	4(RXD-)																																											

### HDMI Pin Description

Pin Definition	Pin#	Signal	Pin#	Signal	
	1	TMDS_TX2P	2	TMDS_TX1P	
	3	TMDS_TX2N	4	TMDS_TX1N	
	5	GND	6	GND	
	7	TMDS_TX0P	8	TMDS_TXCP	
	9	TMDS_TX0N	10	TMDS_TXCN	
	11	GND	12	HDMI_5V	
	13	DDC_CLK_HDMI	14	HDMI_5V	
	15	DDC_DATA_HDMI	16	HPD_HDMI	

### Other On-board Pins Description

Front panel	Definition:			
	Pin#	Signal	Pin#	Signal
	1	+HDLED(VCC)	2	+PLED(VCC)
	3	GND	4	GND
	5	RST_SW	6	PW_BN
	7	GND	8	GND
	9	NC	10	
	HDD Active LED: 1, 3      Power Button: 6, 8			
	Power LED: 2, 4      Reset Button: 5, 7			
	Pin Type	2.54mm /2*5Pin		



<p>BKLT - CTRL, LVDS Brightness Adjustment Definition</p>	<table border="1" data-bbox="619 174 863 427"> <thead> <tr> <th>Pin#</th> <th>Signal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>SW</td> </tr> <tr> <td>3</td> <td>DOWN</td> </tr> <tr> <td>4</td> <td>UP</td> </tr> </tbody> </table> <div data-bbox="898 197 1283 255" style="display: inline-block; border: 1px solid black; padding: 5px;"> <p>1 ■ 2 ● 3 ● 4 ●</p> </div>	Pin#	Signal	1	GND	2	SW	3	DOWN	4	UP
Pin#	Signal										
1	GND										
2	SW										
3	DOWN										
4	UP										
<p>Clear CMOS</p>	<p><b>Clear-CMOS jump wire &amp; definition:</b></p> <table border="1" data-bbox="624 506 1082 589"> <thead> <tr> <th>Pin</th> <th>NA</th> <th>Short</th> </tr> </thead> <tbody> <tr> <td>Define</td> <td>Normal</td> <td>Clear CMOS</td> </tr> </tbody> </table> <div data-bbox="1107 510 1337 573" style="display: inline-block; border: 1px solid black; padding: 5px;"> <p>1 ■ 2 ●</p> </div>	Pin	NA	Short	Define	Normal	Clear CMOS				
Pin	NA	Short									
Define	Normal	Clear CMOS									
<p>CPU-FAN Quantity</p>	<p>2 Pcs.</p>										
<p>"Power ON" Pin AUIO-SW</p>	<p><b>Definition:</b></p> <table border="1" data-bbox="619 707 1050 790"> <thead> <tr> <th>Pin</th> <th>1-2</th> <th>2-3</th> </tr> </thead> <tbody> <tr> <td>Define</td> <td>Normal</td> <td>Power ON</td> </tr> </tbody> </table> <div data-bbox="1085 712 1369 775" style="display: inline-block; border: 1px solid black; padding: 5px;"> <p>1 ■ 2 ● 3 ●</p> </div>	Pin	1-2	2-3	Define	Normal	Power ON				
Pin	1-2	2-3									
Define	Normal	Power ON									
<p>Power Supply Interface(4 Pins)</p>	<p>1/2 GND 3/4 12V/19V</p> <div data-bbox="855 875 1046 1021" style="display: inline-block; border: 1px solid black; padding: 5px;"> <p>01 ■ 02 ● 03 ● 04 ■</p> </div>										