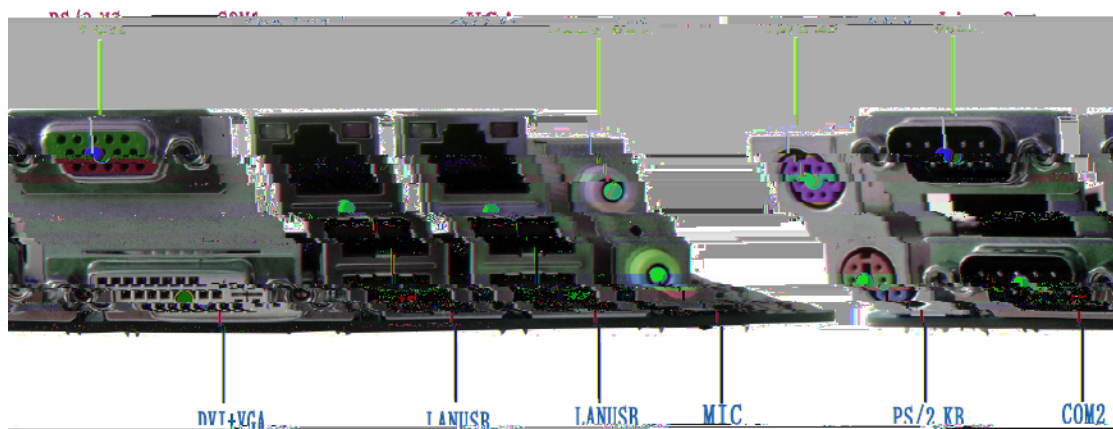
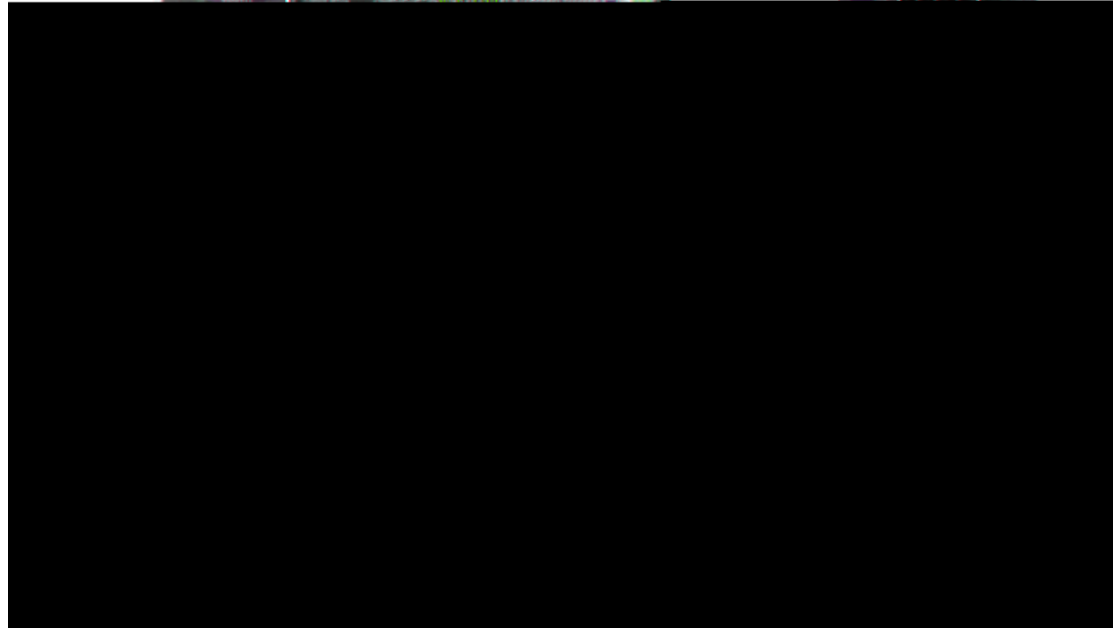
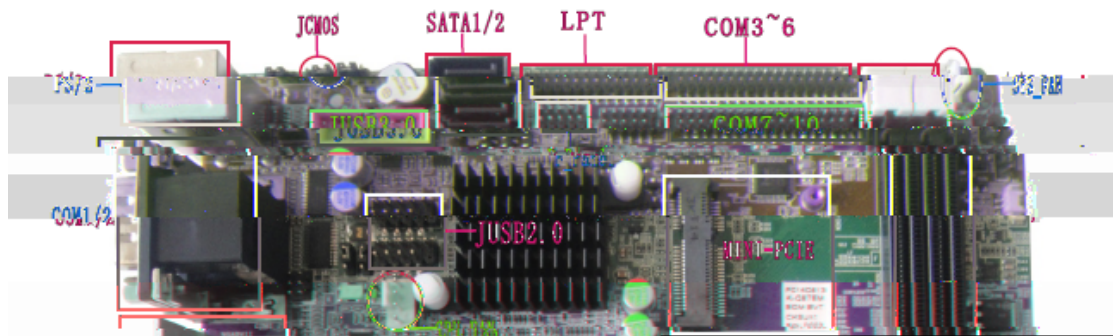


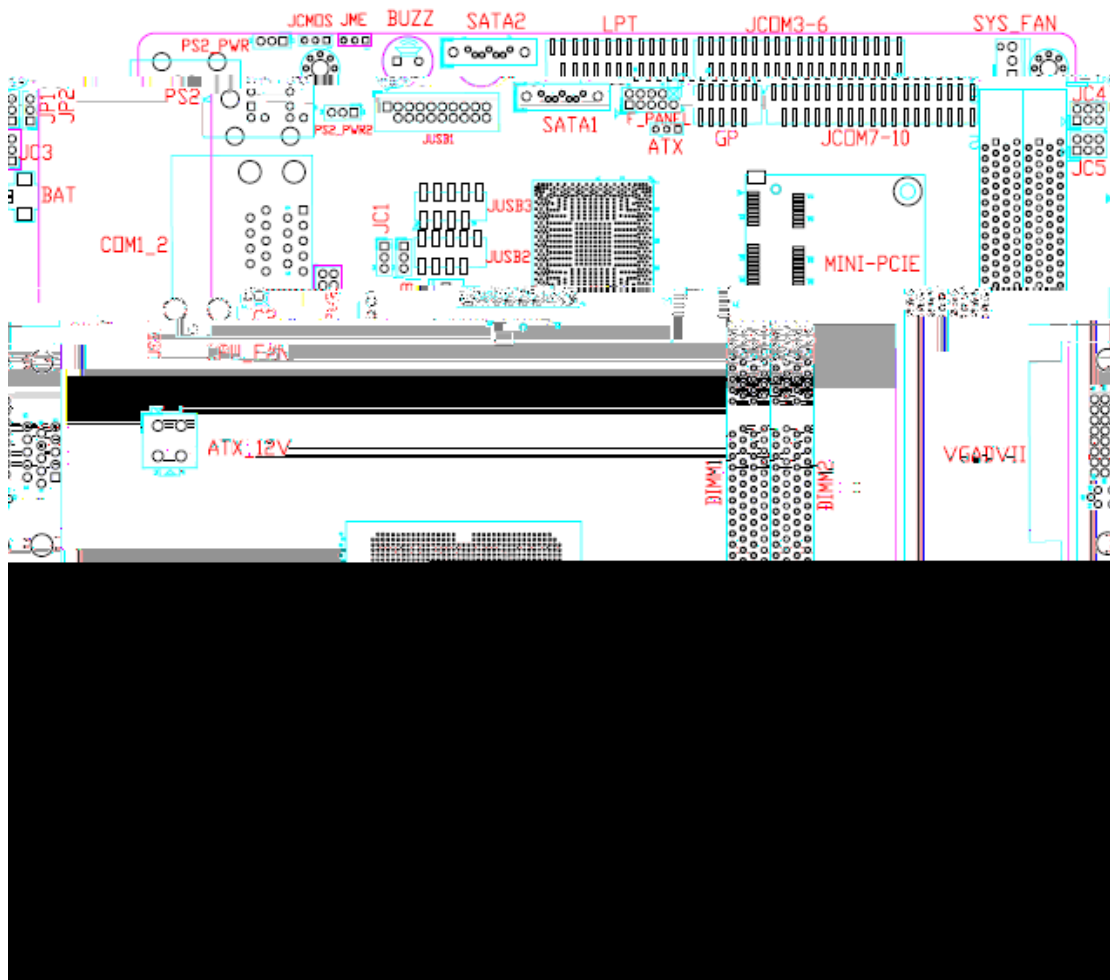
K-Q87TP

		Intel Haswell		H81	B85		Intel
LGA1150		CPU					
	2	DDR3 DIMM			16GB	1	VGA
1	DVI+VGA		3				4K*2K
	1	PCIE-X16	2	LAN	1		Mini-PCIE
10	COM		RS232\485\422	TTL		5v/12V	1 LPT
10	USB	2	USB3.0	2	SATA3		SATA2
	Line out	MIC-IN	1	PS/2			1
GP							
		ITX		17x17mm			ATX

3	2LAN	10COM	10USB				
LAN	USB3.0	WIFI	SATA3.0	COM	LPT	Audio	PCI-X16
	CPU	4K				3840*2160	

	CPU	Intel LGA1150 CPU(i7/i5/i3/PT/CL)
		Intel Haswell H81/B85
		DDR3
		16GB
	Bios	SPI AMI EFI bios
		ACPI2.0B, APM1.2, DIM2.0, SMBIOS2.5
		Intel HD Video CPU
		1 VGA Port
		1 DVI Port DVI+VGA
		1 PCIE-X16
		Realtek RTL8111E
		10/100/1000Mbps
		2 RJ45
		ITE8782F
	COM	10 COM 2 DB9 Port 2 1 4 COM
		RS232/485/422 TTL 5v/12V
	LPT	1 LPT
	PS/2	1 PS/2 PS/2
		USB3.0 5Gb/s USB2.0 480Mb/s
		4 USB 2.0 Port
		1 USB 3.0 2 USB3.0
		2 USB2.0 4 USB2.0
		Realtek HD ALC662
		1 line-out 1 MIC
		1
	SATA	2 SATA SATA3.0 SATA2.0
	PCI-Express	1 Mini-PCIE WIFI(co-lay MSATA)
	GPIO	1
		ATX 24+4pin
	PCB	170*170 mm 6layer
	Windows	WIN7/WIN8
		Unix/Linux
		-20~60
		0~85%RH





JP/CN	pin#	Signal	pin#	Signal	Remark
JCMOS	1	NC			1-2 2-3 CMOS
	2	RTC_RST			
	3	GND			
JP/CN	pin#	Signal	pin#	Signal	Remark
F_Panel	1	HDD LED+	2	PWR LED+	6-8 5-7
	3	HDD LED-	4	PWR LED-	
	5	GND	6	PWRSW	
	7	Reset	8	GND	
	9	NC	10		
JP/CN	pin#	Signal	pin#	Signal	Remark
F_Audio	1	MIC-R	2	GND	
	3	MIC-L	4	AV	
	5	GND	6	MIC-JD	
	7	LINE OUT-R	8		
	9	LINE OUT-R	10	LINE-JD	
JP/CN	pin#	Signal	pin#	Signal	Remark
JUSB2/3	1	VCC	2	VCC	
	3	DT-	4	DT-	
	5	DT+	6	DT+	
	7	GND	8	GND	
	9		10	GND	
JP/CN	pin#	Signal	pin#	Signal	Remark
JUSB1	1	5V	2	RX1-	
	3	RX1+	4	GND	
	5	TX1-	6	TX1+	
	7	GND	8	D1-	
	9	D1+	10	NC	
	11	D2+	12	D2-	
	13	GND	14	TX2+	
	15	TX2-	16	GND	
	17	RX2+	18	RX2-	
	19	5V	20		
JP/CN	pin#	Signal	pin#	Signal	Remark
USB_PWR1	1	5VSB			1-2pin 5V
USB_PRV2					2-3pin 5V
USB_PRV3					

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JP/CN	pin#	Signal	pin#	Signal	Remark
COMB-6 COM-10	1	DCD1	2	RXD1	
	3	TXD1	4	DTR1	
	5	GND1	6	DSR1	
	7	RTS1	8	CTS1	
	9	RI1	10	DCD2	
	11	RXD2	12	TXD2	
	13	DTR2	14	GND2	
	15	DSR2	16	RTS2	
	17	CTS2	18	RI2	
	19	DCD3	20	RXD3	
	21	TXD3	22	DTR3	
	23	GND3	24	DSR3	
	25	RTS3	26	CTS3	
	27	RI3	28	DCD4	
	29	RXD4	30	TXD4	
	31	DTR4	32	GND4	
	33	DSR4	34	RTS4	
35	CTS4	36	RI4		
37	GND	38	NC		
JP/CN	pin#	Signal	pin#	Signal	Remark
JC1	1	RS232			1- 2pin RS232
	2	COM2 RX			2- 3pin
	3	RS485/422			RS485/422
JP/CN	pin#	Signal	pin#	Signal	Remark
JC2	1	GND	2	GND	
	3	TX485+/422+	4	TX485- /422-	
	5	RX485+/422+	6	RX485- /422-	
JP/CN	pin#	Signal	pin#	Signal	Remark
JC3	1	GND			1- 2pin 2- 3pin
	2	COM2 RTS			
	3	5V			
JP/CN	pin#	Signal	pin#	Signal	Remark
JP1/JP2	1	RS232		RS232	1- 2pin RS232 2- 3pin TTL
	2	RX		TX	
	3	TTL		TTL	
JP/CN	pin#	Signal	pin#	Signal	Remark
JC4/JC5	1	RI	2	RI	JC4 COM5
	3	5V	4	RI	JC5 COM6
	5	12V	6	RI	

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JP/CN	pin#	Signal	pin#	Signal	Remark
GP	1	NC(5V)	2		1pin NC 5v
	3	GPI O1	4	GPI O2	
	5	GPI O3	6	GPI O4	
	7	GPI O5	8	GPI O6	
	9	GPI O7	10	GPI O8	
	11	GND	12	GND	
JP/CN	pin#	Signal	pin#	Signal	Remark
CPU_FAN	1	GND			
	2	12V			
	3	FAN_DEC			
	4	FAN_CTL			
JP/CN	pin#	Signal	pin#	Signal	Remark
SYS_FAN	1	GND			
	2	12V			
	3	FAN_DEC			
JP/CN	pin#	Signal	pin#	Signal	Remark
ATX	1	VCC			1-2pin
	2	PWRSW			
	3	NC			
JP/CN	pin#	Signal	pin#	Signal	Remark
PS2_PWR	1	5VSB			1-2pin 5V 2-3pin 5V
	2	PS2PWR			
	3	5VSYS			
JP/CN	pin#	Signal	pin#	Signal	Remark
LPT	1	STB	2	AFD	
	3	D0	4	ERR	
	5	D1	6	INT	
	7	D2	8	SLIN	
	9	D3	10	GND	
	11	D4	12	GND	
	13	D5	14	GND	
	15	D6	16	GND	
	17	D7	18	GND	
	19	ACK	20	GND	
	21	BUSY	22	GND	
	23	PE	24	GND	
	25	SLCT	26		