








### 3

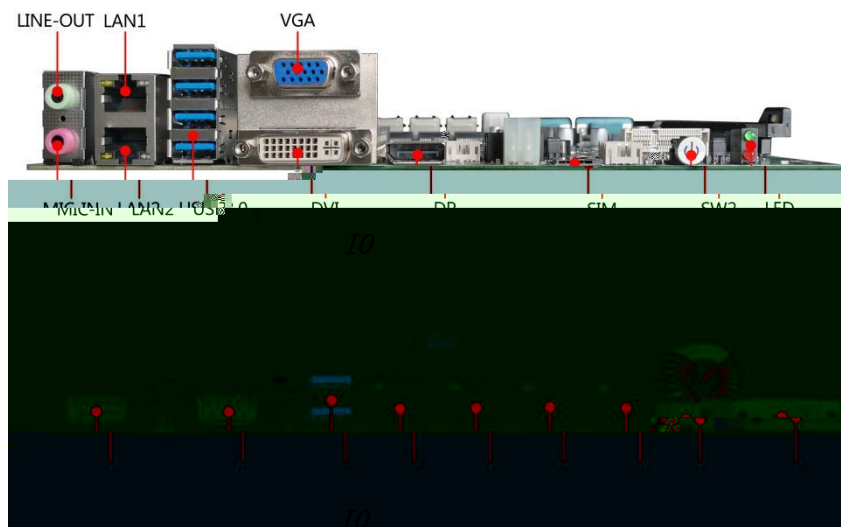
	Intel 8 <sup>th</sup> / 9 <sup>th</sup>	LGA1151 Socket
	2*DDR4-2400MT/s	Max 64GB
	SPI AMI EFI bios	
	1*VGA 1*DVI 1*DP++	
	6*RJ45 Intel I211AT& Intel I219LM 3	
	1*AUDIO	MIC-IN &LINE-OUT
	1*SPK 2W/4	
	2*SATA3.0 1*M.2 2280 M-key	
	6*COM	
	6*USB3.0 2*USB2.0 16*GPIO 2* Mini-PCIE WIFI/4G	
	5.08-4P	18~36V
	230*212mm	
	WIN10 Unix/Linux	
	-20~+70 5~95%RH	

LAN2 Intel I219LM Intel I211AT; LAN3-6 POE 802.3AT  
 ( 25W) POE 80W  
 M.2 2280 M-Key PCIe-X4/SATA3.0  
 RS232 1 2 BIOS RS232/485/422

4.1



4.2 IO



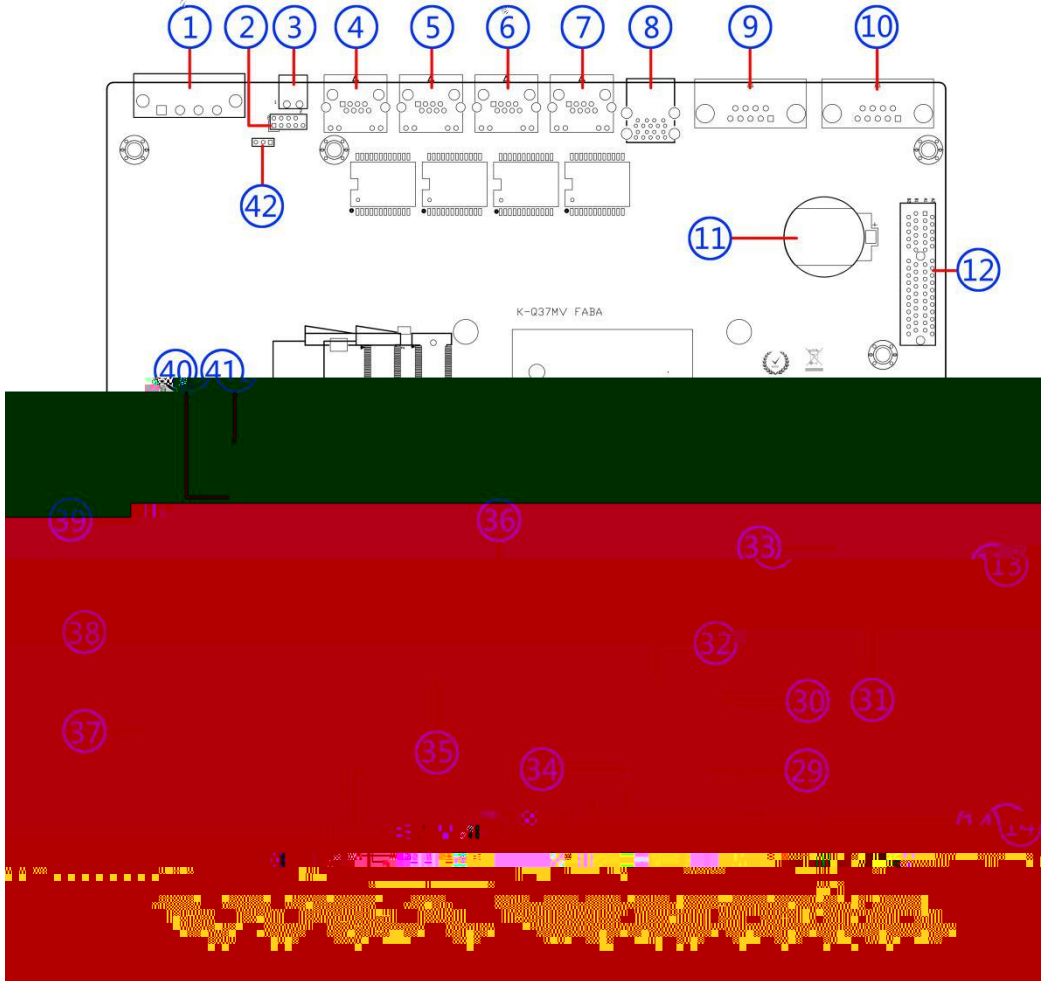






# 5

## 5.1



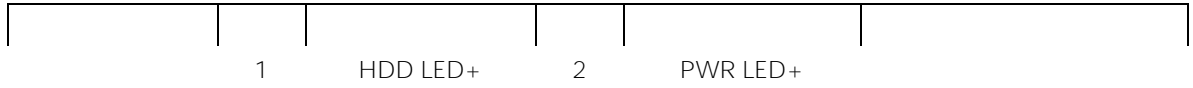
## 5.2

1	DC-IN1	5.08-4P			
2	F_PANEL1	2.0-2*5P	/		
3	PWR_SW1	3.5-2P	/		
4	LAN1	RJ45	3	POE	
5	LAN2	RJ45	4	POE	
6	LAN3	RJ45	5	POE	
7	LAN4	RJ45	6	POE	
8	USB1	USB3.0 Type-A			
9	COM1	DB9	1	BIOS	RS232/485/433
10	COM2	DB9	2	BIOS	RS232/485/433
11	BAT1	RTC 3.3V			
12	PCIE_4X1	PCIe-X4			
13	PCIE_16X1	PCIe-X16			
14	JME	ME			
15	LED1	&			
16	PWR_SW2	/			
17	JUSB1	PH2.0-4P USB2.0			
18	JUSB2	PH2.0-4P USB2.0			
19	SIM1	Mini-PCIe1	SIM		
20	PWR_OUT	ATX-2*2P			
21	SATA2	2.0-2*5P	/		
22	SATA_PWR1	PH2.0-4P SATA			
23	DP1	DP++			
24	VGA_DVI1	DB15 VGA	DVI-I		
25	SYS_FAN1	2510-3P			
26	J1	USB3.0 Type-A			
27	J3	RJ45	1 &	2	
28	AUDIO1	3.5mm	MIC-IN & LINE-OUT		
29	JCMOS	CMOS			
30	BUZZ				
31	MINI-PCIE2	Mini-PCIe	2		
32	MINI-PCIE1	Mini-PCIe	1		
33	SIM2	Mini-PCIe2	SIM		
34	SATA1	SATA3.0	1		
35	NGFF1	M.2 2280 M-Key NVMe SSD	PCIe-X4/SATA3.0		
36	JDEBUG	2.0-9P LPC			
37	SPK1	PH2.0-4P			
38	JI2C1	PH2.0-4P I2C			
39	JCOM3-6	2.54-2*20P1	4	3~6	RS232

40	GP1	2.0-2*6P 8	1
41	GP2	2.0-2*6P 8	2
42	AT_ATX1		

	RS232	RS485	RS422
1	DCD	D-	TX-
2	RXD	D+	TX+
3	TXD		RX+
4	DTR		RX-
5	GND	GND	GND
6	DSR		
7	RTS		
8	CTS		
9	RI		

## 5.3



F\_PANEL



JCOM4-6	1	COM3_DCD	2	COM3_DSR	
	3	COM3_RX	4	COM3_RTS	
	5	COM3_TX	6	COM3_CTS	
	7	COM3_DTR	8	COM3_RI	
	9	GND	10	GND	
	11	COM4_DCD	12	COM4_DSR	
	13	COM4_RX	14	COM4_RTS	
	15	COM4_TX	16	COM4_CTS	
	17	COM4_DTR	18	COM4_RI	
	19	GND	20	GND	
	21	COM5_DCD	22	COM5_DSR	
	23	COM5_RX	24	COM5_RTS	
	25	COM5_TX	26	COM5_CTS	
	27	COM5_DTR	28	COM5_RI	
	29	GND	30	GND	
	31	COM6_DCD	32	COM6_DSR	
	33	COM6_RX	34	COM6_RTS	
	35	COM6_TX	36	COM6_CTS	
	37	COM6_DTR	38	COM6_RI	
39	GND	40	GND		
GP1 GP2	1	5V	2		
	3	GPIO1	4	GPIO2	
	5	GPIO3	6	GPIO4	
	7	GPIO5	8	GPIO6	
	9	GPIO7	10	GPIO8	
	11	GND	12	GND	
SYS_FAN1	1	GND			
	2	12V			
	3	FAN_TAC			
DC_IN1	1	V_IN			
	2	V_IN			
	3	GND			
	4	GND			
PWR_SW1	1	PWRBT#			
	2	GND			





## 6 BIOS

*K-Q37MV BIOS*

*BIOS*