

[Q170A94W]

[User's Manual]



六联智能
SIXUNITED

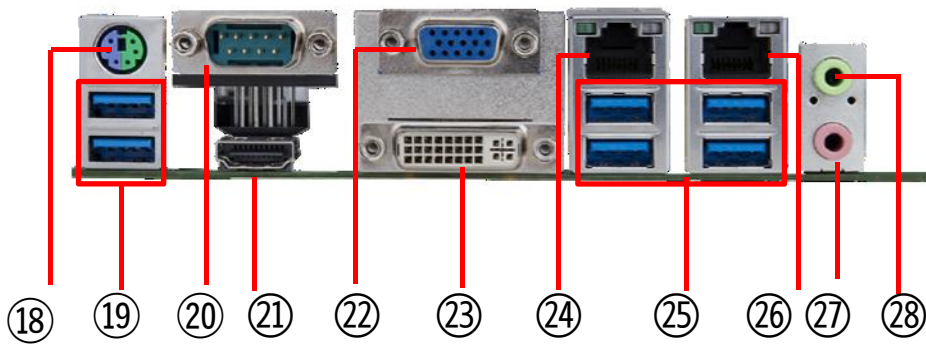
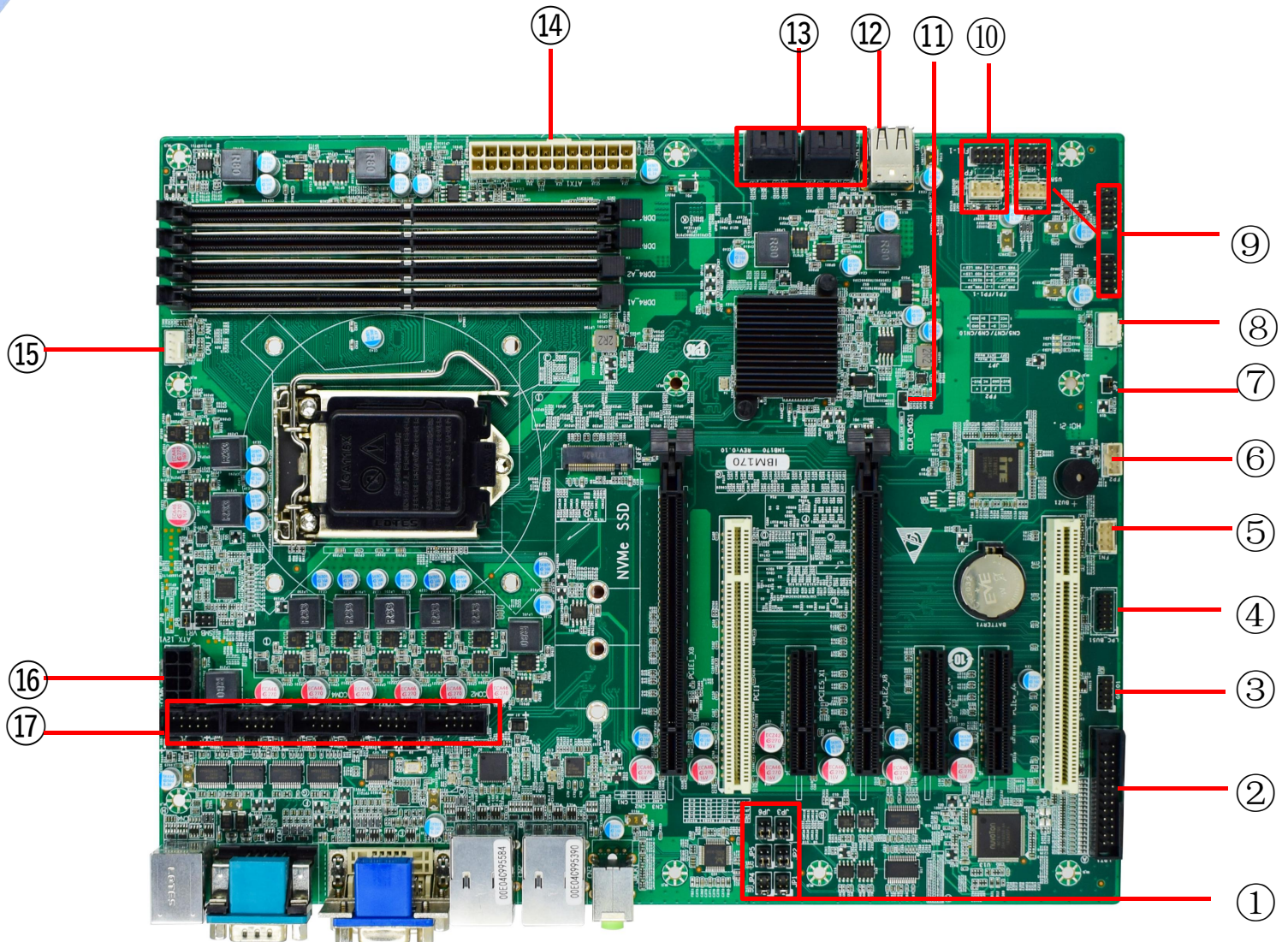
Contents

1. Specifications	1
2. Locations	2
3. Dimension.....	4
4. Connector and Jumper Setting.....	5
1) JP1~JP6.....	5
2) LPT.....	5
3) GPIO.....	5
4) LPC_BUS.....	5
5) FN1.....	5
6) JP7.....	6
7) CPU FAN&SYS FAN.....	6
8) USB.....	6
9) USB.....	6
10) FP2.....	6
11) FP1.....	6
12) Clear CMOS.....	7
13) ATX1.....	7
14) ATX_12V.....	7
15) COM.....	7

1. Specifications

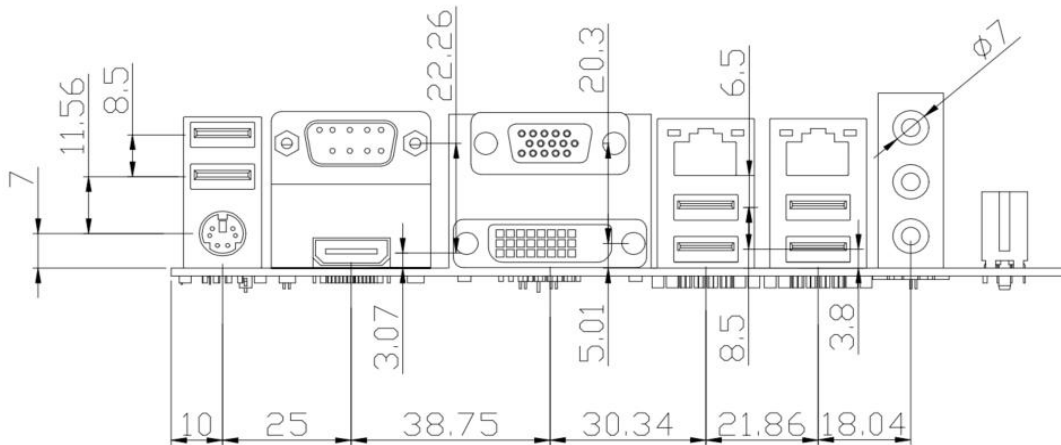
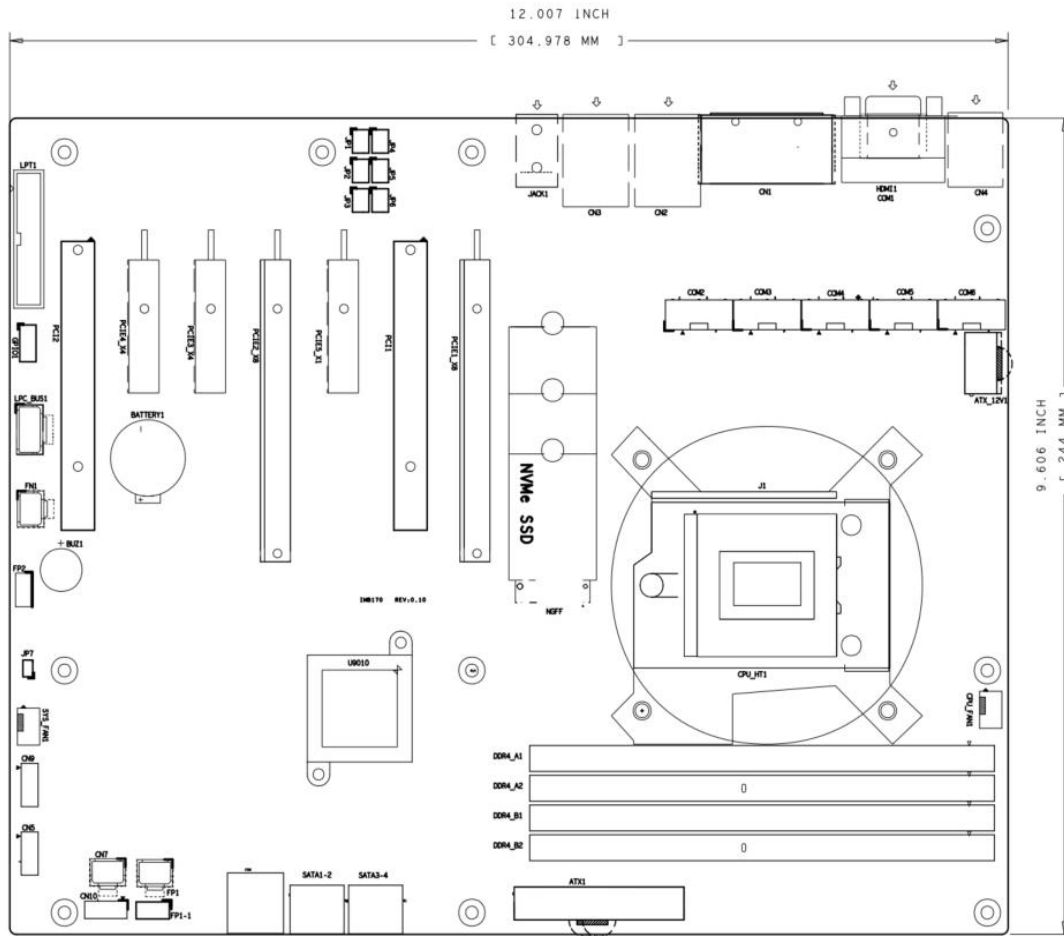
model	Q170A94W
CPU	Support intel LGA1151 6/7/8/9Gen celeron/Pentium/core I3/I5/I7/I9 Processor
Chipset	Q170
Memory	4*DDR4 U-DIMM,Up to 2600Mhz, Up to 64GB
Graphics	1*HDMI 1.4,Maximum resolution 4096x2160@30Hz 1*LVDS,Maximum resolution 4096x2160@60Hz 1*DVI-D,Maximum resolution 2560x1600,60Hz/1920x1080,120Hz
Storage	4*SATA3.0 1*M.2 2242/2280 NVME/SATA SSD
LAN	2* LAN, LAN1: Intel I219LM, LAN2: Intel I211AT
Serial Port	6 COM(Expanable 10 COM,COM1&COM2 RS232/422/485,COM3~6 RS232)
Rear I/O	1*PS/2(2 in 1) 1*COM 1*HDMI 1*DVI-D 6*USB 3.2 Gen1 2*RJ45 1*Line_out 1*Mic_in
Front I/O	NA
Internal I/O	1*LPT 1*GPIO 1*CPU FAN+1*SYS FAN 1*F_Panel 5*COM 4*SATA 1*LPC 1*Clear CMOS 4 *USB Header
Size	305mm X 244mm
Temperature	Operation: 0~60°C, Stroage:-40~80°C
Humidity	5%~95%,Non-condensing
Power Input	24+8 ATX PWR

2. Locations



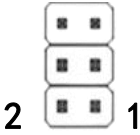
Locations	
1	JP1-JP6(RS232/485 Jumper header)
2	LPT header (2.54mm)
3	GPIO (2.0mm)
4	LPC_BUS1
5	FAN1
6	SPK-FP2(2.0mm)
7	AUTO PWRON (JP7)
8	CPU_FAN1 & SYS_FAN1
9	USB header(CN5/CN7/CN9/CN10)
10	FP1(2.0mm)/FP1-1(2.54mm)
11	CLR_CMOS
12	USB2.0
13	4*SATA
14	ATX1
15	CPU_FAN1& SYS_FAN1
16	ATX_12V
17	COM Header (2.54mm)
18	PS/2
19	2*USB3.0
20	COM
21	HDMI
22	VGA
23	DVI-D
24	RJ45
25	USB3.0
26	RJ45
27	Mic-In
28	Line-Out

3. Dimension

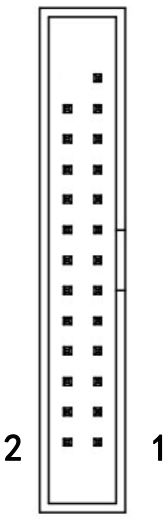


4. Connector and Jumper Setting

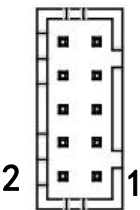
1) JP1~JP6

Graphic	COM1/2	RS232	RS485	RS422
	JP1/JP4	1-2	3-4	5-6
	JP2/JP5	1-3	3-5	3-5
		2-4	4-6	4-6
	JP3/JP6	1-3	3-5	3-5
		2-4	4-6	4-6

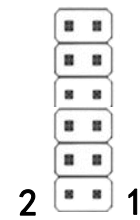
2) LPT

Graphic	PIN	Define	PIN	Define
	1	STRB	2	AFD
	3	PD0	4	ERR
	5	PD1	6	INIT
	7	PD2	8	SLIN
	9	PD3	10	GND
	11	PD4	12	GND
	13	PD5	14	GND
	15	PD6	16	GND
	17	PD7	18	GND
	19	ACK	20	GND
	21	BUSY	22	GND
	23	PE	24	GND
	25	SLCT	26	N/A

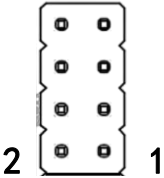
3) GPIO

Graphic	PIN	Define	PIN	Define
	1	INPUT 0	2	OUTPUT 0
	3	INPUT 1	4	OUTPUT 1
	5	INPUT 2	6	OUTPUT 2
	7	INPUT 3	8	OUTPUT 3
	9	GND	10	NC/5V


4) LPC_BUS1

Graphic	PIN	Define	PIN	Define
	1	+3V	2	PLTRST
	3	LPC_CLK	4	LPC_AD0
	5	LPC_FRAME	6	LPC_AD1
	7	LPC_AD3	8	LPC_AD2
	9	GND	10	SERIRQ
	11	GND	12	+5V


5) FN1

Graphic	PIN	Define	PIN	Define
	1	VCC5SB	2	SIO_SMBDAT
	3	SMB_DA	4	SIO_SMBCLK
	5	SMB_CK	6	PWR_SW+
	7	GND	8	RST+

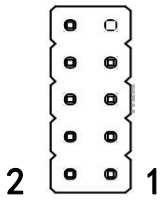
6) JP7

Graphic	PIN	Define	PIN	Define
	1-2	ATX mode	1-2	AT mode

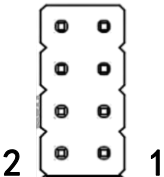
7) CPU FAN & SYS FAN

Graphic	PIN	Define	PIN	Define
	1	GND	2	+12V
	3	FAN_SENSE	4	FAN_CTRL


8) USB

Graphic	PIN	Define	PIN	Define
	1	+5V	2	+5V
	3	USB1_Data-	4	USB2_Data-
	5	USB1_Data+	6	USB2_Data+
	7	GND	8	GND
	9	/	10	GND

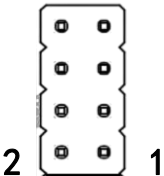
9) USB

Graphic	PIN	Define	PIN	Define
	1	+5V	2	+5V
	3	USB1_Data-	4	USB2_Data-
	5	USB1_Data+	6	USB2_Data+
	7	GND	8	GND

10) FP2

Graphic	PIN	Define	PIN	Define
	1	BUZ+	2	GND
	3	NC	4	BUZ-

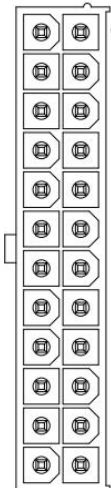
11) FP1

Graphic	PIN	Define	PIN	Define
	1	PWR_SW+	2	PWR_SW-
	3	RESET-	4	RESET+
	5	HDD LED-	6	HDD LED+
	7	PWR LED-	8	PWR LED+

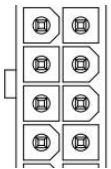
12) Clear CMOS

Graphic	PIN	Define	PIN	Define
	1-2	Normal	1-2	Clear CMOS

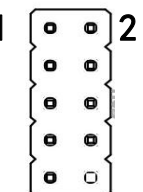
13) ATX1

Graphic	PIN	Define	PIN	Define
	1	+3.3V	2	+3.3V
	3	GND	4	+5V
	5	GND	6	+5V
	7	GND	8	POK
	9	5VSB	10	+12V
	11	+12V	12	+3.3V
	13	+3.3V	14	-12V
	15	GND	16	PSON/#
	17	GND	18	GND
	19	GND	20	NC
	21	+5V	22	+5V
	23	+5V	24	GND

14) ATX_12V

Graphic	PIN	Define	PIN	Define
	1	GND	2	GND
	3	GND	4	GND
	5	+12V	6	+12V
	7	+12V	8	+12V

15) COM

Graphic	PIN	Define	PIN	Define
	1	DCD	2	RXD
	3	TXD	4	DTR
	5	GND	6	DSR
	7	RTS	8	CTS
	9	RI	10	/