

## 特点:

- 支持 Intel® 12/13th Gen Core/ Pentium/ Celeron 处理器, TDP=125W
- 搭配 Intel® Q670 芯片组
- 四个(Non-ECC) DDR4-3200MHz 内存插槽, 最高支持 128G
- 板载 1 个 Intel GbE 和 1 个 Intel 2.5GbE 网卡
- 默认 2 个 RS232/422/485 和 4 个 RS232 串口
- 板载 9 个 USB3.2 和 3 个 USB2.0
- HDMI、DP、VGA 和 eDP 显示接口, 最高支持 4K@60Hz 分辨率
- 2 个 PCIe x16、1 个 PCIe x8、3 个 PCIe x4 和 1 个 PCI 插槽



远程管理



状态监控



远程运维



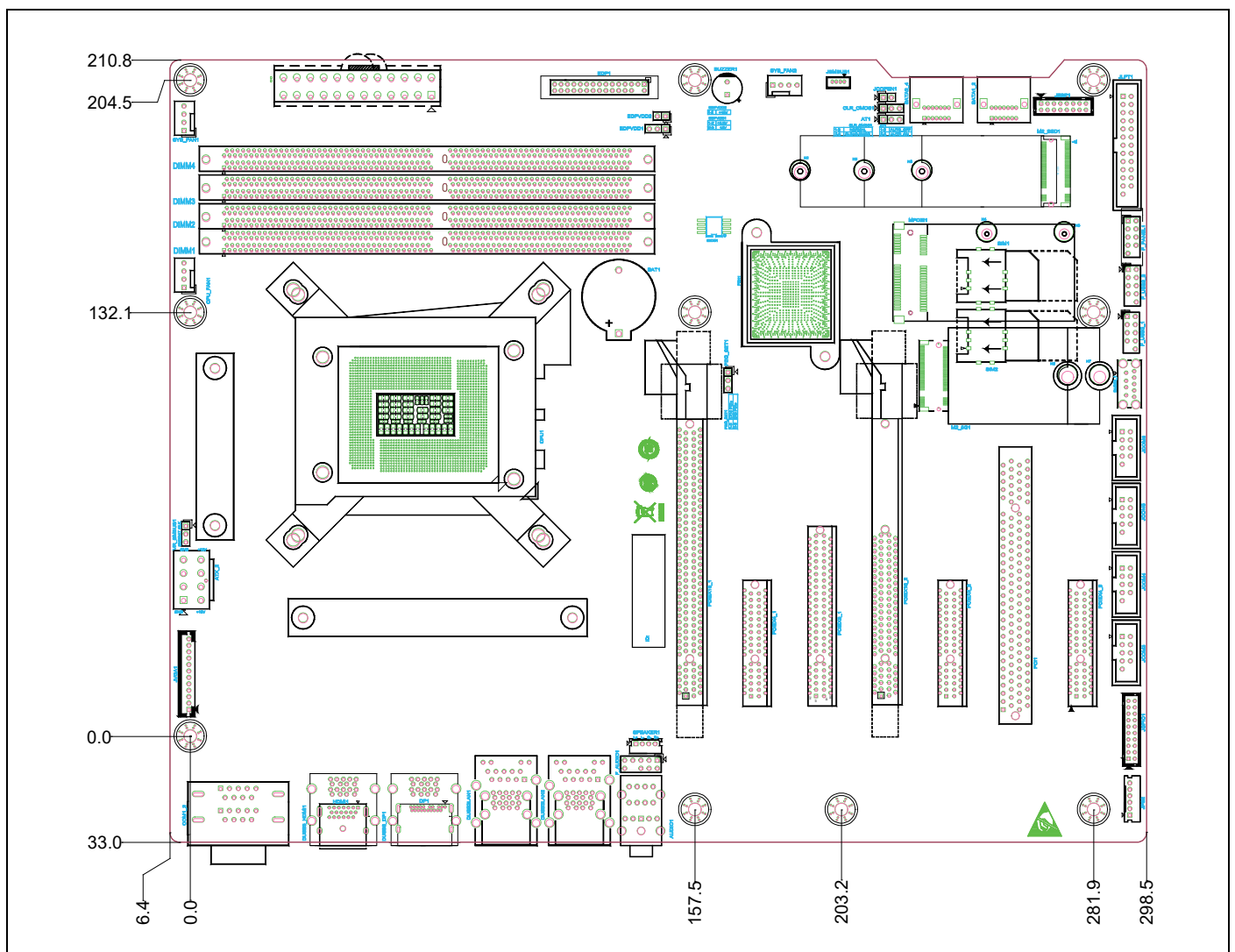
安全控制

## 产品规格

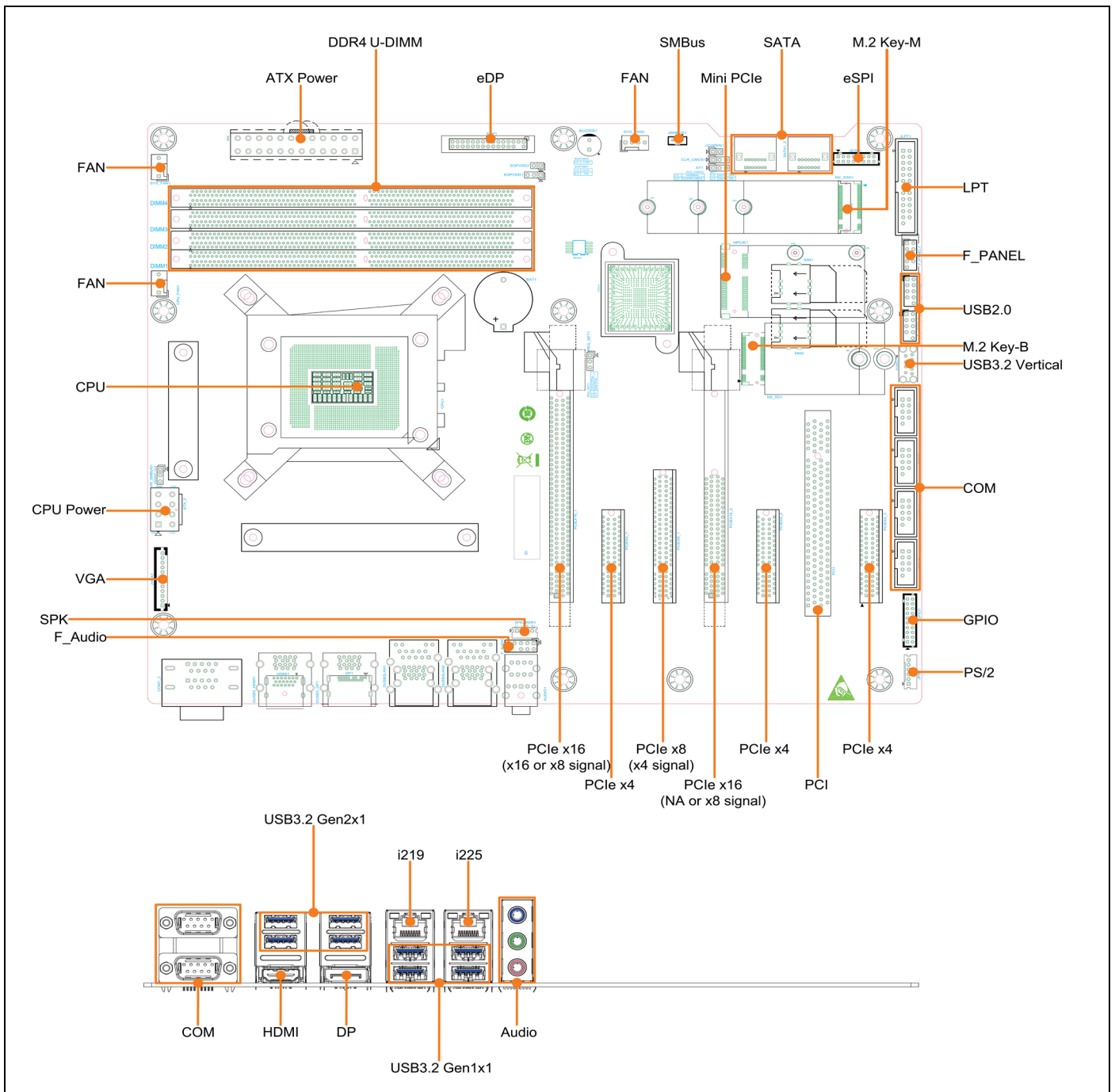
Model	ATT-Q670		
Processor System	CPU	Support Intel® 12/13th Generation Core / Pentium/ Celeron Desktop CPU	
	TDP	125W	
	Socket	LGA1700	
	Chipset	Q670	
	BIOS	AMI 256 Mbit SPI	
Memory	Socket	4 * Non-ECC U-DIMM Slot, Dual Channel DDR4 up to 3200MHz	
	Capacity	128GB, Single Max. 32GB	
Graphics	Controller	Intel® UHD Graphics	
Ethernet	Controller	1 * Intel i225-V/LM 2.5GbE LAN Chip (10/100/1000/2500 Mbps) 1 * Intel i219-LM/V GbE LAN Chip (10/100/1000 Mbps)	
	SATA	4 * SATA3.0 7P Connector, up to 600MB/s, Support RAID 0, 1, 5, 10	
Expansion Slots	M.2	1 * M.2 Key-M (PCIe x4 Gen 4 + SATA3.0, NVMe/SATA SSD Auto Detect, 2242/2260/2280)	
	PCIe slot	2 * PCIe x16 slot (Gen 5, x16 /NA signal or Gen 4, x8 /x8 signal) 1 * PCIe x8 slot (Gen 4, x4 signal) 2 * PCIe x4 slot (Gen 4, x4 signal) 1 * PCIe x4 slot (Gen 3, x4 signal)	
		PCI	1 * PCI slot
		Mini PCIe	1 * Mini PCIe (PCIe x1 Gen 3 + USB 2.0, with 1 * SIM Card)
Rear I/O	M.2	1 * M.2 Key-B (USB3.2 Gen 1x1 (co-lay with usb header, default), with 1 * SIM Card, 3042/3052 )	
	Ethernet	2 * RJ45	
	USB	4 * USB3.2 Gen 2x1 (Type-A, 10Gbps, Each group of two ports Max. 3A, one port Max. 2.5A) 4 * USB3.2 Gen 1x1 (Type-A, 5Gbps, Each group of two ports Max. 3A, one port Max. 2.5A)	
		Display	1 * DP1.4: max resolution up to 3840*2160 @ 60Hz 1 * HDMI2.0: max resolution up to 3840*2160 @ 30Hz
	Audio	3 * 3.5mm Jack (Line-out + Line-in + MIC)	
Serial	2 * RS232/422/485 (COM1/2, DB9/M, Full Lanes, BIOS Switch)		
Internal I/O	USB	1 * USB3.2 Gen 1x1 (Vertical Type-A) 4 * USB2.0 (One of four shares a signal with the M.2 Key-B, optional, Header)	
		Display	1 * VGA: max resolution up to 1920*1200 @ 60Hz (wafer) 1 * eDP: max resolution up to 1920*1200 @ 60Hz (Header)
	Audio	1 * Front Audio (Line-Out + MIC, Header) 1 * Speaker (3W (per channel) into a 4Ω Loads, wafer)	
	Serial	4 * RS232 (COM3/4/5/6, Header, Full Lanes)	

	GPIO	1 * 16 bits DIO (8xDI and 8xDO, wafer)
	PS/2	1 * PS/2 (Keyboard & Mouse, wafer)
	LPT	1 * LPT (Header)
	SMBus	1 * SMBus (wafer)
	SATA	4 * SATA3.0 7P Connector
	FAN	1 * CPU FAN (Header) 2 * SYS FAN (Header)
	Front Panel	1 * Front Panel (Header)
Power Supply	Type	ATX
	Connector	1 * 8P 12V Power (Header) 1 * 24P Power (Header)
OS Support	Windows	Windows 10/11
	Linux	Linux
Watchdog	Output	System Reset
	Interval	Programmable 1 ~ 255 sec
Mechanical	Dimensions	304.8 x 243.8 mm (12" x 9.6")
Environment	Operating Temperature	-20 ~ 60°C (Industrial SSD)
	Storage Temperature	-40 ~ 80°C (Industrial SSD)
	Relative Humidity	10 to 95% RH (non-condensing)

## 产品尺寸



# 产品 I/O



### 功能框图

