

ATT-Q670



Features:

- Supports Intel® 12th/13th Gen Core / Pentium / Celeron processors, TDP=125W
- Equipped with the Intel® Q670 chipset
- Four (Non-ECC) DDR4-3200MHz memory slots, supporting up to 128GB
- Onboard one Intel GbE and one Intel 2.5GbE network card
- Default two RS232/422/485 and four RS232 serial ports
- Onboard nine USB3.2 and three USB2.0 ports
- HDMI, DP, VGA, and eDP display interfaces, supporting up to 4K@60Hz resolution
- Two PCIe x16, one PCIe x8, three PCIe x4, and one PCI slot

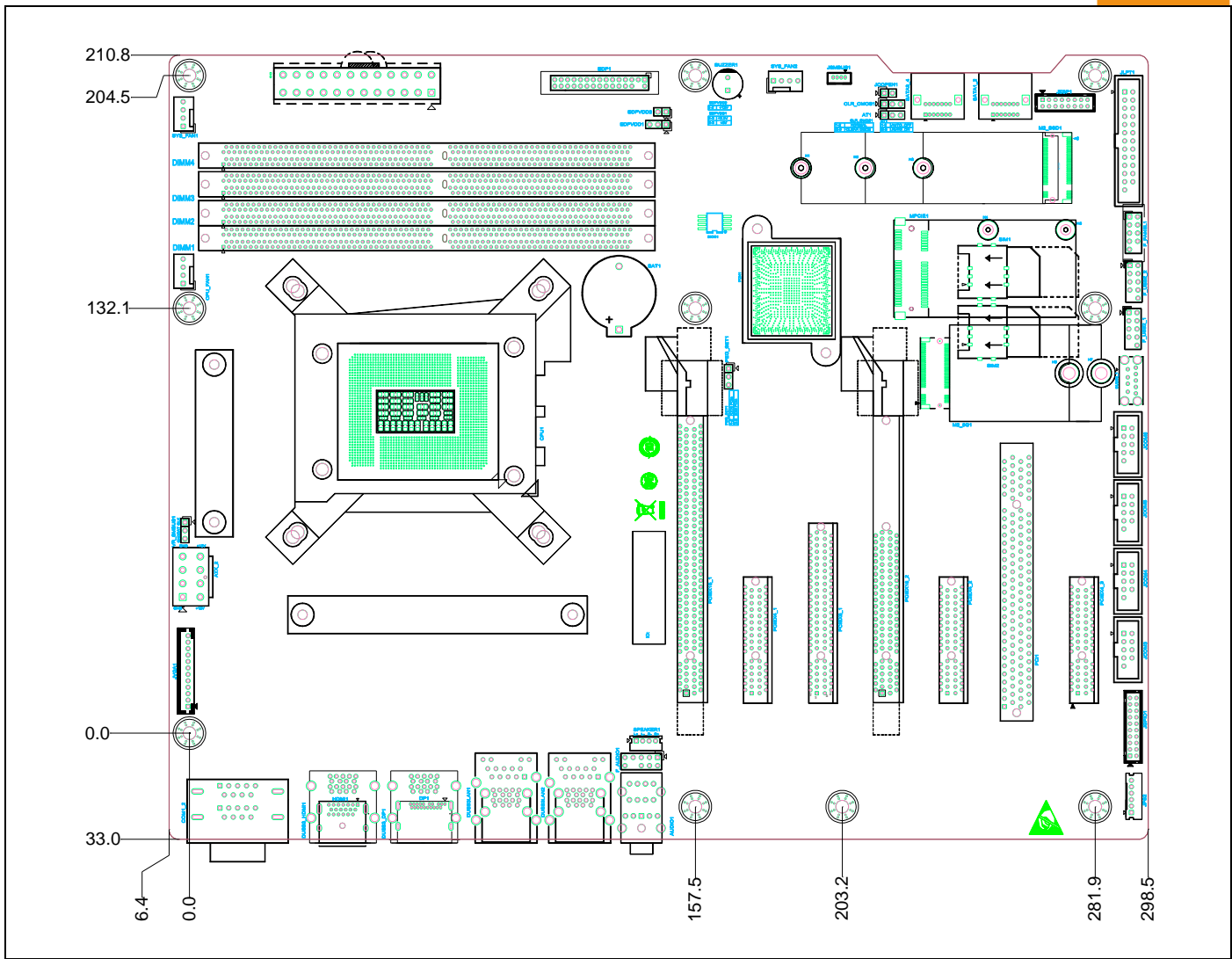
Remote Management	Status Monitoring	Remote Operations and Maintenance	Security Control

Product Specifications

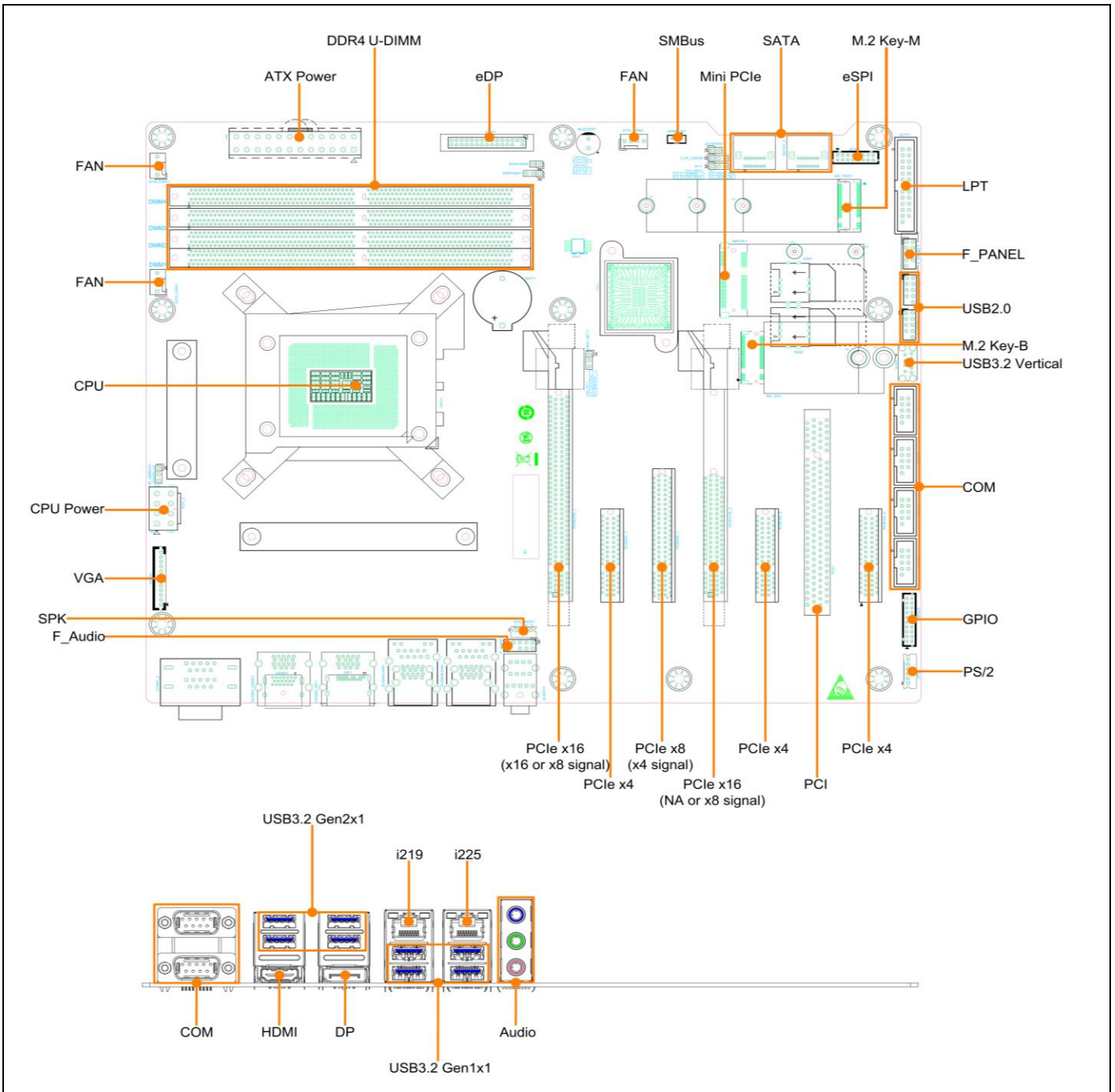
Model	ATT-Q670	
Processor System	CPU	Support Intel® 12/13th Generation Core / Pentium/ Celeron Desktop CPU
	TDP	125W
	Socket	LGA1700
	Chipset	Q670
	BIOS	AMI 256 Mbit SPI
Memory	Socket	4 * Non-ECC U-DIMM Slot, Dual Channel DDR4 up to 3200MHz
	Capacity	128GB, Single Max. 32GB
Graphics	Controller	Intel® 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)
Storage	SATA	4 * SATA3.0 7P Connector, up to 600MB/s, Support RAID 0, 1, 5, 10
	M.2	1 * M.2 Key-M (PCIe x4 Gen 4 + SATA3.0, NVMe/SATA SSD Auto Detect, 2242/2260/2280)
Expansion Slots	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)
	M.2	1 * M.2 Key-B (USB3.2 Gen 1x1 (co-lay with usb header, default), with 1 * SIM Card, 3042/3052)
Rear I/O	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
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)

Product Dimensions



Product I/O



Functional Block Diagram

