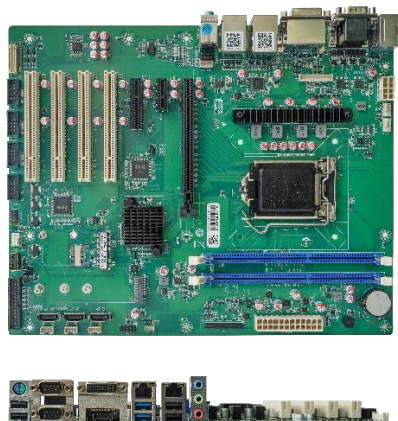


## ATT-H81



### Features:

- Supports Intel® 4th/5th Gen Core/ Pentium/ Celeron processors, TDP=95W
- Equipped with Intel® H81 chipset
- 2 (Non-ECC) DDR3-1600MHz memory slots, supporting up to 16GB
- Onboard 2 Intel Gigabit network cards
- Default 2 RS232/422/485 and 4 RS232 serial ports
- Onboard 2 USB3.0 and 7 USB2.0 ports
- HDMI, DVI, VGA, and eDP display interfaces, supporting up to 4K@24Hz resolution
- 1 PCIe x16, 1 PCIe x4, 1 PCIe x1, and 4 PCI slots

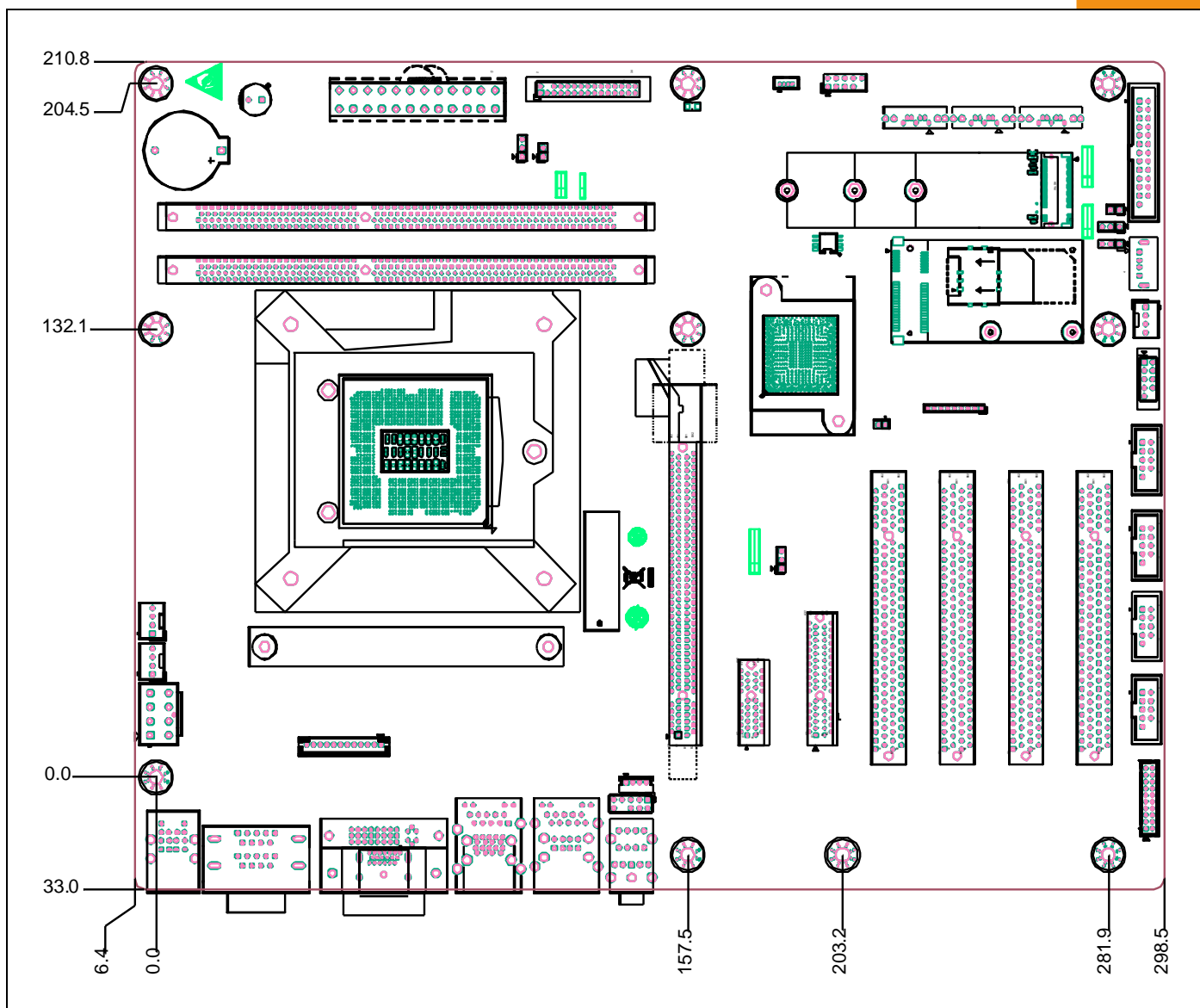
Remote Management	Status Monitoring	Remote Operations and Maintenance	Security Control

### Product Specifications

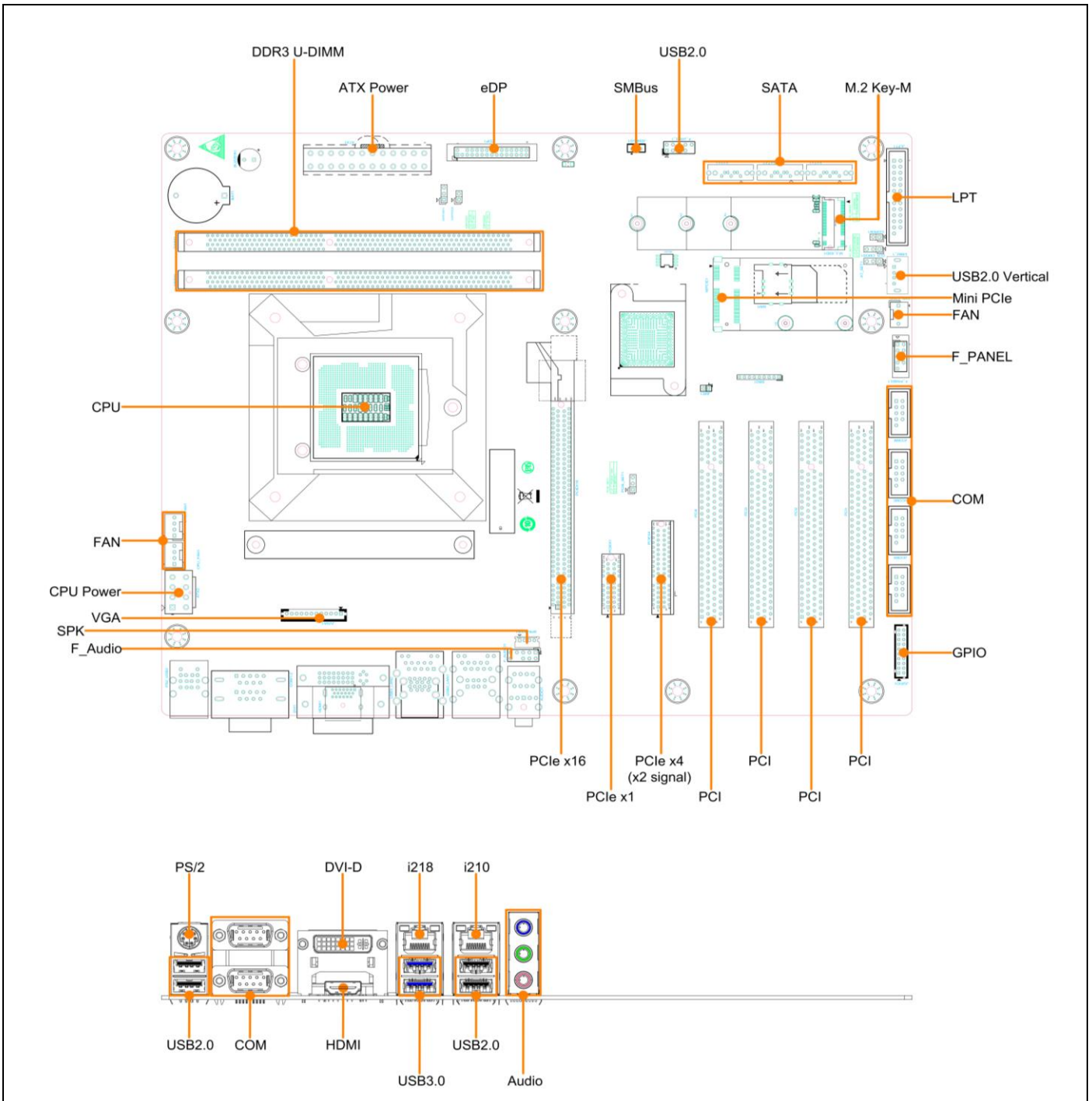
Model	ATT-H81	
Processor System	CPU	Support Intel® 4/5th Generation Core / Pentium/ Celeron Desktop CPU
	TDP	95W
	Socket	LGA1150
	Chipset	H81
	BIOS	AMI 256 Mbit SPI
Memory	Socket	2 * Non-ECC U-DIMM Slot, Dual Channel DDR3 up to 1600MHz
	Capacity	16GB, Single Max. 8GB
Graphics	Controller	Intel® HD Graphics
Ethernet	Controller	1 * Intel i210-AT GbE LAN Chip (10/100/1000 Mbps) 1 * Intel i218-LM/V GbE LAN Chip (10/100/1000 Mbps)
Storage	SATA	1 * SATA3.0 7P Connector, up to 600MB/s 2 * SATA2.0 7P Connector, up to 300MB/s
	M.2	1 * M.2 Key-M (SATA3.0, 2242/2260/2280)
Expansion Slots	PCIe slot	1 * PCIe x16 slot (Gen 3, x16 signal) 1 * PCIe x4 slot (Gen 2, x2 signal, Default, co-lay with Mini PCIe) 1 * PCIe x1 slot (Gen 2, x1 signal)
	PCI	4 * PCI slot
	Mini PCIe	1 * Mini PCIe (PCIe x1 Gen 2 + USB2.0 (Opt., co-lay with PCIe x4 slot), with 1 * SIM Card)
Rear I/O	Ethernet	2 * RJ45
	USB	2 * USB3.0 (Type-A, 5Gbps, Each group of two ports Max. 3A, one port Max. 2.5A) 4 * USB2.0 (Type-A, Each group of two ports Max. 3A, one port Max. 2.5A)
	PS/2	1 * PS/2 (Keyboard & Mouse)
	Display	1 * DVI-D: max resolution up to 1920*1200 @ 60Hz 1 * HDMI1.4: max resolution up to 4096*2160 @ 24Hz
	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 * USB2.0 (Vertical Type-A) 2 * USB2.0 (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)
	LPT	1 * LPT (Header)
	SMBus	1 * SMBus (wafer)
	SATA	1 * SATA3.0 7P Connector 2 * SATA2.0 7P Connector
	FAN	1 * CPU FAN (Header) 2 * SYS FAN (Header)
	Front Panel	1 * Front Panel (Header)
<b>Power Supply</b>	Type	ATX
	Connector	1 * 8P 12V Power (Header) 1 * 24P Power (Header)
<b>OS Support</b>	Windows	Windows 7/10/11
	Linux	Linux
<b>Watchdog</b>	Output	System Reset
	Interval	Programmable 1 ~ 255 sec
<b>Mechanical</b>	Dimensions	304.8 x 243.8 mm (12" x 9.6")
<b>Environment</b>	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

