

U680 Series Industrial PC

Features 产品特性

- ✓ Support LGA1700 packaged 12th& 13th generation i9/i7/i5/i3/G all series CPU, TDP 125W

✓ 4 x DDR5 U-DIMM sockets support max 128GB

✓ 5 x PCIe expansion slots support up to 22 GbE LAN

✓ 10 x high speed USB3.2 support high-definition audio devices

✓ 4 Display/2GbE/10USB/1COM

✓ Industrial-grade port protection blocks static electricity and surges, effectively protecting the core of the system and ensuring stability and reliability.

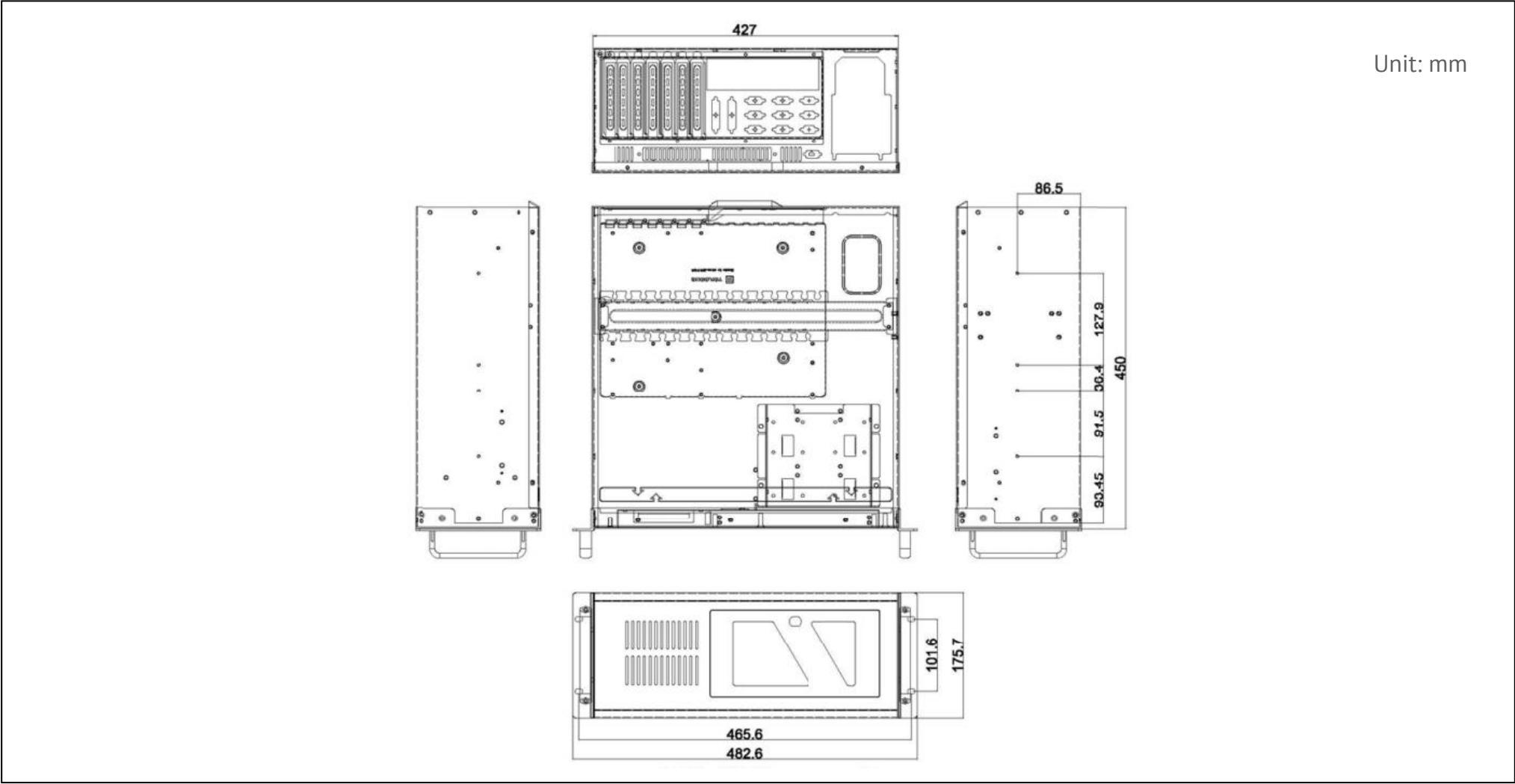
✓ Industrial-grade interface chips and Intel network chips are used to ensure high-speed and stable data transmission.

✓ Support PCIe5.0 high-performance GPU card for AI deep learning and machine vision

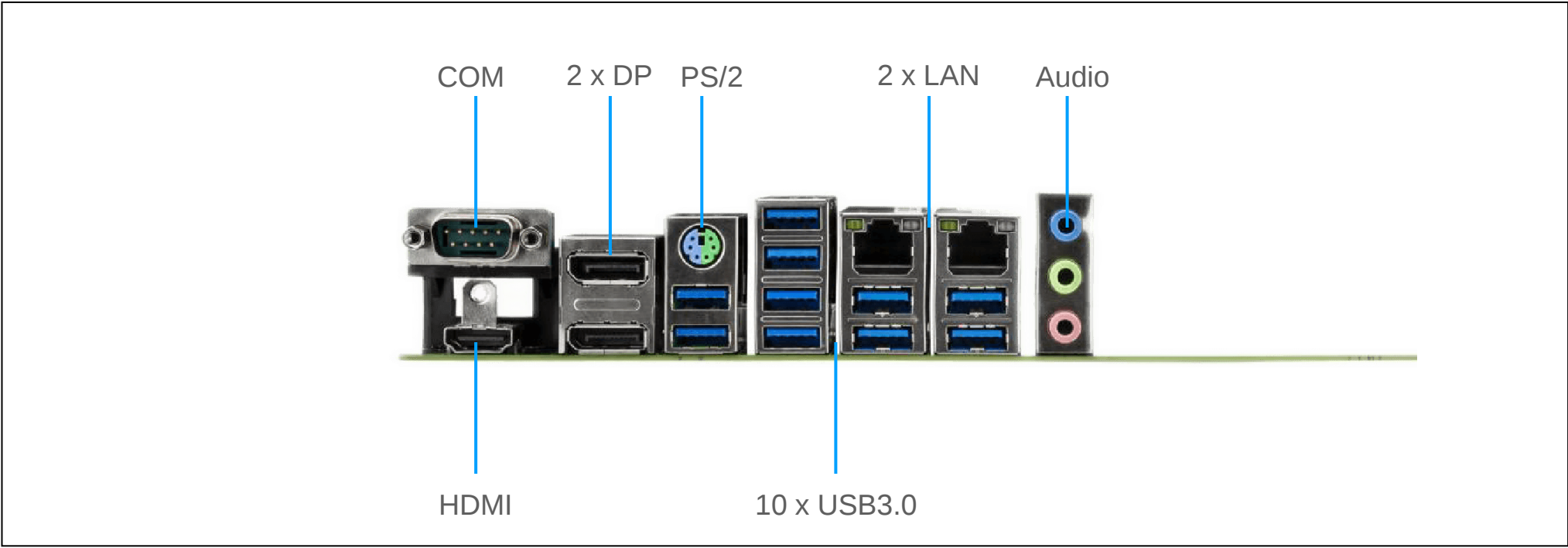
Specifications 规格信息

Item	Sub-Items	Descriptions
Processor System	CPU	Support LGA1700 packaged 12th& 13th generation i9/i7/i5/i3/G all series CPU, TDP 125W
	BIOS	AMI UEFI BIOS
	Chipset	Intel® W680 chipset, support vPro
Memory	Technology	4× 288Pin DDR5 UDIMM memory socket
	Max. Capacity	Single 32GB, support max 128GB
	Socket	Support ECC memory and support DDR5-4400/4800/5200/5600 according to the equipped CPU
Graphics	Controller	Intel® integrated graphics (Varies depending on CPU)
Storage	SATA3.0	4 x SATA3.0 (6 Gb/s) ports
	M.2 M-Key	2 x M.2 2242/2280 Key-M support Nvme (M2-KeyM2 support SATA/Nvme adaptive)
Display	DP	2
	HDMI	1
	DVI-D	1
	Independent 4 display	DP+DP+HDMI+DVI-D
External IO	LAN	1 x Intel i226-LM/V 2.5GbE LAN, 1 x Intel i219-V GbE LAN
	COM	1 x RS-232/422/485
	USB	10 x USB3.2 Type A (2 x Gen2, 8 x Gen1) leaded from rear IO
	PS/2	1 x PS/2
	Audio	Mic-In, Speaker-Out, Line-In
Internal IO	USB 2.0	2 x USB2.0 support Dongle, 2 x USB2.0(Pin-out)
	COM	1 x RS-232/422/485, 4 x RS-232
	LPT	1
	DIO	1 x 16-bit isolated digital I/O, providing power and ground, +5V level
	eSPI	1
Expansion	PCIe x16	1 x PCIe x16 slot support PCIe 5.0 maximum data bandwidth up to 64GB/s; 1 x PCIe x16 slot (x4 signal) support PCIe 4.0 maximum data bandwidth up to 8GB/s
	PCIe x4	1 x PCIe x4 slot supports PCIe 4.0 maximum data bandwidth up to 8GB/s; 2 x PCIe x4 slots support PCIe 3.0 maximum data bandwidth up to 4GB/s
	PCI	2 x standard PCI slots (32bit)
Power	Power supply	ATX power supply, supports ATX/AT switch mode
Others	Watchdog	255 levels of programmable seconds/minutes, supports timeout interrupt or system reset
	TPM	Onboard encryption chip SLB9670 supports TPM2.0
OS	Operation system	Win10 x64, Win11 x64, Linux Ubuntu 21.04
Physical Characteristics	Dimension	483 x 450 x 176 mm (L x W x H)
	Weight	10.3KG
Environment	Operational	Temperature range -10°C~60°C, relative humidity 10%~85%, atmospheric pressure 85~105kPa
	Storage	Temperature range -40°C~85°C, relative humidity 5%~95%(40%), atmospheric pressure 85 ~105 kPa

Dimensions 尺寸



Interface 接口



CPU List

	Intel 12 th & 13 th generation CPUs						
CPU	i3-12100	i5- 12400	i7- 12700	i9-12900	i3-13100	i5-13400	i3-13700
Max Turbo Frequency	4.30 GHz	4.40 GHz	4.90 GHz	5.10 GHz	4.50 GHz	4.60 GHz	/
Cores	4	6	12	16	4	10	16
Threads	8	12	20	24	8	16	24
TDP	Base 60W Max Turbo 89W	Base 65W Max Turbo 117W	Base 65W Max Turbo 180W	Base 65W Max Turbo 202W	Base 60W Max Turbo 89W	Base 65W Max Turbo 154W	Base 65W Max Turbo 219W
Cache	12 MB	18 MB	25 MB	14 MB	12 MB	20 MB	24 MB