

Product Catalog

Edge Gateway | Industrial Controller | High Performance Computer | Industrial Touch Monitor

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Website

Jiangsu Huaying Intelligent Technology Co., Ltd.

COMPANY PROFILE

Jiangsu Huaying Intelligent Technology Co., Ltd.

Huaying Intelligent Technology Co.,Ltd.(referred to as HWAINTEK) is com-mitted to the automation, digitalization and intelligentization of various industries, and provides core hardware component that support data acquisition, data processing, edge control and intelligent sensing for various scenarios. Huaying Technology Technology is specialized in the research, development, production and sales of industrial computing hardware products, oriented to serving equipment manufacturers and system integrators, and engaged in the main business mode of providing customers with personalized hard-ware solutions based on the hardware technology with the advanced independent intel-lectual property right, and is committed to empowering smart industry with advanced technology.

Focusing on industries such as semiconductor, agriculture, intelligent manufacturing, new energy, medical treatment and health care, Huaying Technology Technology strives to grow together with the industry, make progress together with customers, and provide core processing and control hardware products and solutions for the industry.

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EDGE GATEWAY

Product Characteristics

HG series products of Huaying Technology are edge gateway hardware products designed as per industrial standards, and based on Intel ATOM series processor, are standardly equipped with independent PHY network port, serial port and USB port, so as to complete data acquisition and pre-processing at the device side and transfer data to the server side through the network, thus realizing data fusion and centralized data processing decision-making.

This series of hardware products are compatible with mainstream operating systems such as WINDOWS, LINUX and UOS, and widely support the environment required by mainstream protocols such as TCP/IP, Modbus, MQTT and EtherCAT.

The products are widely used in business scenarios such as production line data acquisition, factory MES system interfacing, industrial informatization data acquisition, etc.

Application Scenarios

- 3C intelligent manufacturing line station information management
- Data acquisition of silicon growth in photovoltaic monocrystalline silicon furnace
- Paddy farmland information collection
- Ceramic high temperature furnace data collection
- Steel wastewater treatment information collection
- Factory MES system client

Product Introduction

HG30 Series Edge Gateway

- Equipped with Intel® Elkhart Lake processor
- Compact size and powerful performance, balancing data transmission and processing capabilities
- PS-ON remote switch terminal for easy remote operation
- Hardware compatibility with multiple protocols such as TCP/IP and Modbus
- Can expand Ethernet wired communication and 4G/5G/WIFI/Bluetooth wireless communication

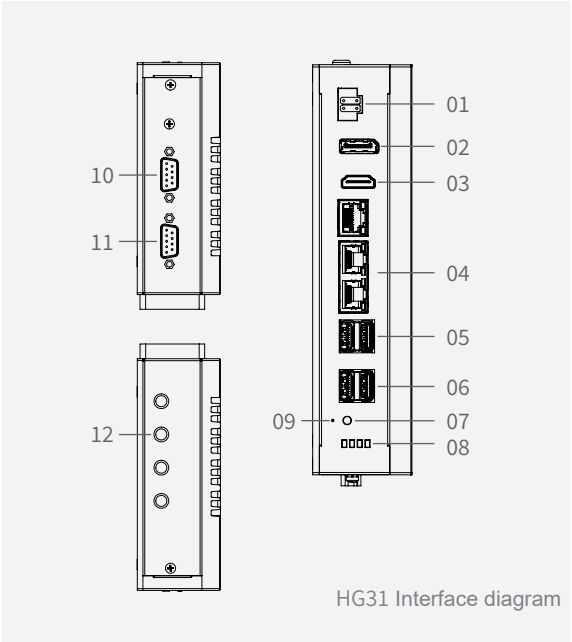


HG31D Series Product Specification

Attribute		HG31
Product Image		
System Parameters	CPU	Intel® Celeron® J6412
	Chipset	Intel® SoC Integrated
	Memory	2 x SODIMM DDR4, MAX 32GB
	Storage	1 x M.2 2280 SSD (SATA)
External I/O	Display	1 x DP, MAX 4096 x 2160@60Hz; 1 x HDMI, MAX 4096 x 2160@60Hz
	LAN	2 x LAN, Intel i210-AT; 1 x LAN, Intel i226-V
	COM	1 x RS-232/485; 1 x RS-232
	USB	2 x USB3.0; 2 x USB2.0
	Audio	/
	REMOTE	Support remote switch, integrated in the power supply part
	Power button	1 x Power switch button
Internal expansion	USB	/
	Mini-PCle	/
	M.2	1 x M.2 3052, supports 4G/5G; 1 x M.2 2230, supports Wi-Fi
	SIM	1 x Nano SIM
Mechanical parameters	Dimension	188 x 125 x 45mm
	Net weight	1.2kg
	Installing	Guide rail mounting (wall-mounted optional)
System	OS	Windows 10 IoT LTSC、Linux
Power	Input Voltage	24V DC IN, 4PIN Phoenix
	power consumption	MAX 60W
Environmental parameters	Operating Temperature	0~50℃
	Storage Temperature	-20℃ ~60℃
	Relative humidity	95% @ 40℃ (non-condensing)

	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64
	EMC	CE、FCC

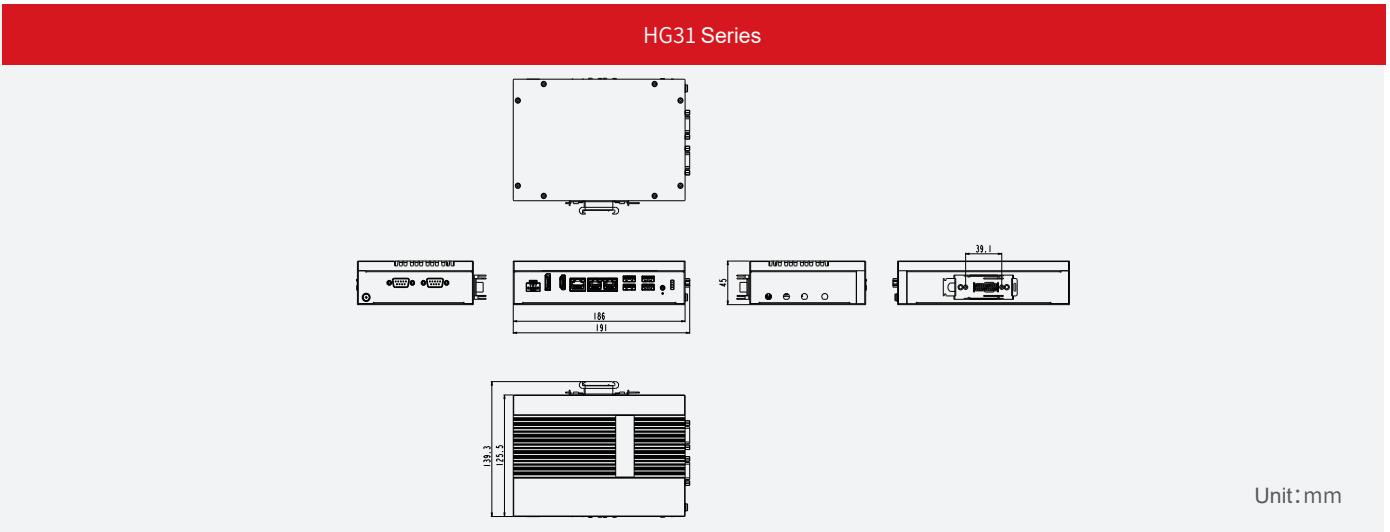
Interface Description



HG31 Series

- 01 Power input interface (24V DC IN)
- 02 DP
- 03 HDMI
- 04 3x LAN
- 05 2x USB3.0
- 06 2x USB2.0
- 07 Power Button
- 08 LED (PWR、SATA、USER1、USER2)
- 09 Reset
- 10 COM1 (RS232/485)
- 11 COM2 (RS232/485)
- 12 ANT (antenna interface)

Dimension

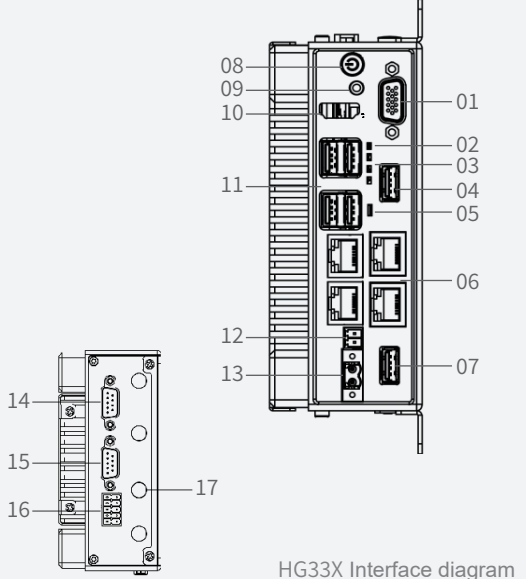


HG33X Series Product Specification

Attribute		HG33X
Product Image		
System Parameters	CPU	Intel® J6412/N97/i5-7200U/i5-8250U/i5-1135G7/i5-1235U
	Chipset	Intel® SoC Integrated
	Memory	1 x SODIMM DDR4, MAX 16GB
	Storage	1 x M.2 2280 SSD (SATA/NVMe), 1 x mSATA
External I/O	Display	1 x HDMI; 1 x VGA
	LAN	4 x LAN, intel i210-AT
	COM	2 x RS-232/485/422; 2 x RS-232
	USB	4 x USB3.0
	Audio	1 x Line-out/Mic-in
	REMOTE	1 x Remote Switch Phoenix Terminal Interface
	Power button	1 x AT/ATX DIP Switch
Internal expansion	USB	2 x USB2.0
	Mini-PCle	1 x Mini-PCle full card, onboard SIM card slot, supports WIFI/BT/3G/4G
	M.2	1 x M.2 Key B, supports 5G
	SIM	1 x SIM
Mechanical parameters	Dimension	145 x 126 x 59mm
	Net weight	2.1kg
	Installing	Guide rail mounting (wall-mounted optional)
System	OS	Windows 10/11、Linux
Power	Input Voltage	DC 9~36V 2PIN Phoenix
	Power consumption	MAX 60W
Environmental parameters	Operating Temperature	0~50°C
	Storage Temperature	-20°C ~60°C
	Relative humidity	95% @ 40°C (non-condensing)

	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64
	EMC	CE、FCC

Interface Description



HG33X Interface diagram

HG33X Series

01 VGA

02 HDD LED

03 CPU Temp. LED

04 USB2.0

05 AT/ATX

06 LAN x 4

07 USB2.0

08 Power Button

09 Audio output/Mic-in

10 HDMI

11 USB3.0 x 4

12 SW

13 Dc in 9~36V

14 COM3/4(1 to 2 cable)

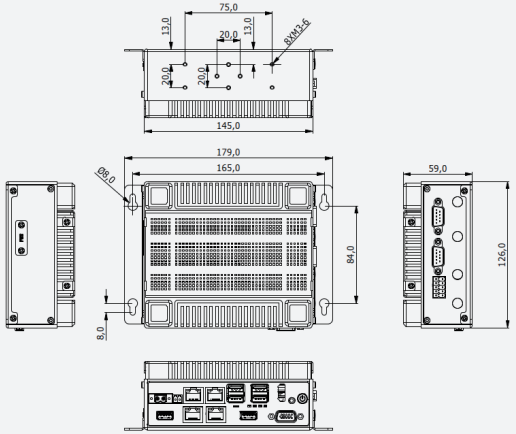
15 COM1/2(1 to 2 cable)

16 GPIO x 8

17 Antenna Hole x 4

Dimension

HG33X Series



Unit:mm

INDUSTRIAL CONTROLLER

HM Series

HM300 | HM500

HPM Series

HPM132/HPM133

HWAINTEK

Product Characteristics

HM and HPM series products of Huaying Technology are based on IA+FPGA hardware heterogeneous architecture. The hardware is compatible with the requirements of IEC-61131-3 and IEC-61499 for hardware environment, and can deploy SOFT PLC RUNTIME environment based on CODESYS, so as to realize the functions such as PLC, motion control, etc. The network completely adopts Intel's independent PHY chip design and adapts to the demand of field buses such as EtherCAT.

In addition, this series of products can support the isolation of the underlying hardware to achieve the containerization of hardware, and can deploy different operating systems and software operating environments, so as to realize running of the different task loads in independent system environment, thus ensuring the independence and security of each task, and also ensuring the instantaneous communication of data between the tasks. The products are widely used by customers in industries and fields such as high reliability industrial control, robotics, AGV, AMR and CNC, etc.

Application Scenarios

- Lithium battery winding control line
- Logistics express-delivery parcels separation control line
- Multi-axis controller for textile processing
- AGV/AMR core control
- Semiconductor die-bonding equipment control

Product Introduction

HM300 Series Industrial Controller

- Equipped with Intel® Elkhart Lake processor
- Support the mainstream fieldbus protocol EtherCAT, and real-time Ethernet communication
- Integrated with motion control modules, which can control up to 128 axes
- Support built-in super capacitor for a stronger anti-vibration performance to ensure data and system security
- Compact size, strong performance and strong anti-interference performance

HM500 Series Industrial Controller

- Equipped with Intel® 11th Tiger Lake processor
- Support the mainstream fieldbus protocol EtherCAT, and real-time Ethernet communication
- Integrated with complex motion control modules, which can control up to 256 axes
- Support built-in super capacitor for a stronger anti-vibration performance to ensure data and system security

HPM132/HPM133 Series Panel PC

- Equipped with Intel® Elkhart Lake processor
- 10-wire capacitive multi-touch and AG anti-glared surface treatment
- Support the mainstream fieldbus protocol EtherCAT and real-time Ethernet communication
- 10.1", 12.1", 15.6", 17", 19" and 21.5" display screens are optional
- Support visual configuration software and realize intelligent interaction

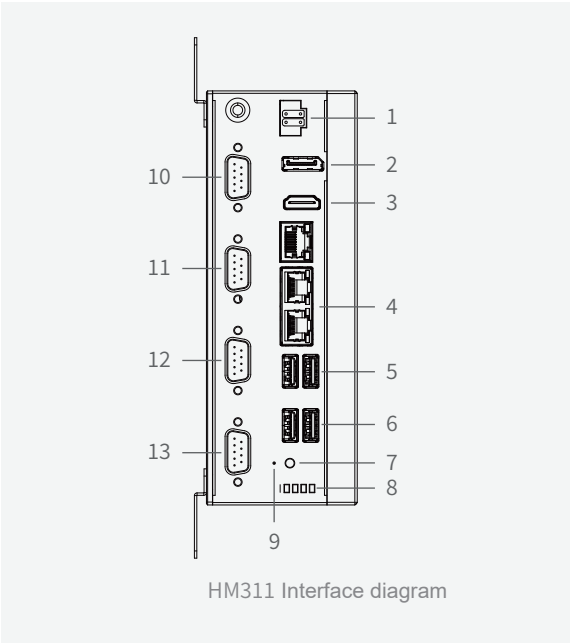


HM300 Series Product Specification

Attribute		HM311	HM312	HM313	HM314	HM315
Product Image						
System Parameters	CPU	Intel® Elkhart Lake platform J6412		Intel® Alder Lake-N series N97/i3-N305		
	Chipset	Intel® SoC Integrated				
	Memory	2 x SODIMM DDR4, MAX 32GB		2 x SODIMM DDR5, MAX 16GB		
	Storage	1 x M.2 2280 SSD (SATA)				
External I/O	Display	1 x DP, MAX 4096 x 2304@60 Hz; 1 x HDMI, MAX 4K/2K@60 Hz				
	LAN	2 x LAN, Intel® I210-AT; 1 x LAN, Intel® I226-V		2 x LAN, Intel® i210 GbE; 1 x LAN, Realtek RTL8111H GbE		
	COM	1 x RS-232/422/485, 1 x RS-232, 2 x RS-232/485			1 x RS-232/422/485, 1 x RS-232	
	DIO	/			8 x DI, 8 x DO	
	USB	2 x USB3.0, 2 x USB2.0		3 x USB3.0, 1 x USB2.0		
	Audio	/				
	REMOTE	Support remote switch, integrated in the power supply part				
	Power button	1 x Power switch button				
Others	USB	1 x Internal USB2.0 (Terminal pin)			1 x Internal USB2.0 (Terminal pin), 1 x USB2.0 Type-A	
	UPS	Support,optional				
	M.2	1 x M.2 3052, supports 4G/5G; 1 x M.2 2230, supports Wi-Fi			1 x M.2 3052, supports 4G/5G; 1 x M.2 2230, supports Wi-Fi	
	SIM	1 x Nano SIM				
Mechanical parameters	Dimension	172 x 125 x 62.5 mm		180 x 165 x 67 mm		
	Net weight	1.12 kg		1.2 kg		
	Installing	Guide rail mounting (wall-mounted optional)				
System	OS	Windows 10/11, centos 8, ubuntu 20.04/22.04				
Power	Input Voltage	DC 9~36V				
	power consumption	MAX 60W				
Environmental parameters	Operating Temperature	0~50℃				
	Storage Temperature	-20℃ ~60℃				
	Relative humidity	95% @ 40℃ (non-condensing)				

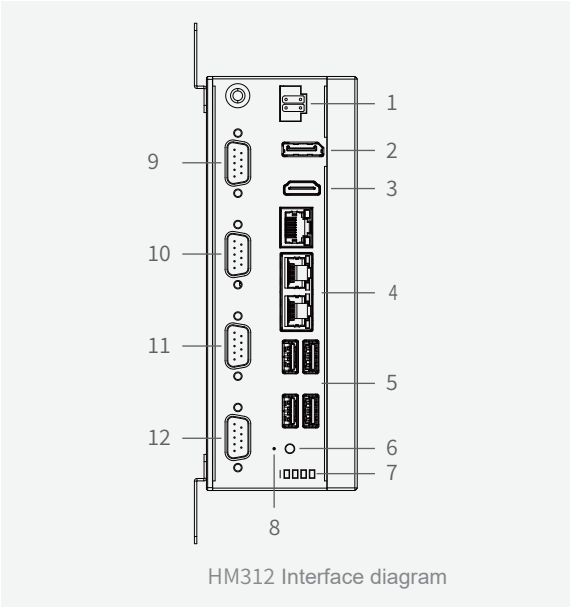
Attribute		HM311	HM312	HM313	HM314	HM315
	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27				
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64				
	EMC	CE、FCC				

Interface Description



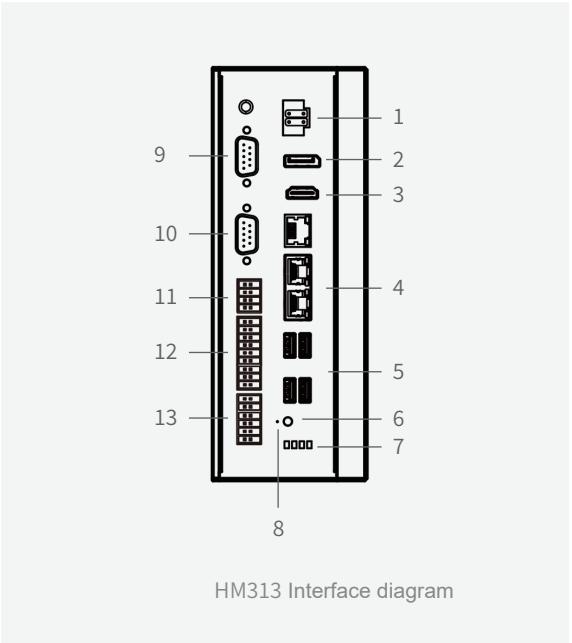
HM311

- 01 Power input interface (24V DC IN)
- 02 DP
- 03 HDMI
- 04 3 x LAN
- 05 2 x USB3.0
- 06 2 x USB2.0
- 07 Power Button
- 08 LED (PWR、SATA、USER1、USER2)
- 09 Reset
- 10 COM1 (RS232/422/485)
- 11 COM2 (RS232)
- 12 COM3 (RS232/485)
- 13 COM4 (RS232/485)



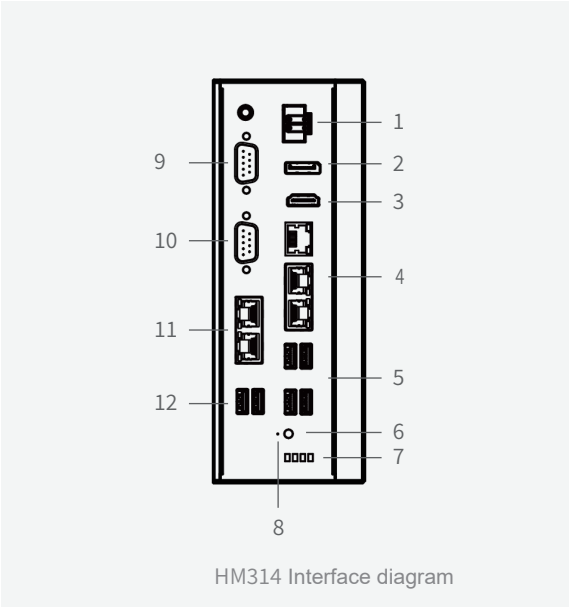
HM312

- 01 Power input interface (24V DC IN)
- 02 DP
- 03 HDMI
- 04 3 x LAN
- 05 3 x USB3.0, 1 x USB2.0
- 06 Power Button
- 07 LED (PWR、SATA、USER1、USER2)
- 08 Reset
- 09 COM1 (RS232/422/485)
- 10 COM2 (RS232)
- 11 COM3 (RS232/485)
- 12 COM4 (RS232/485)



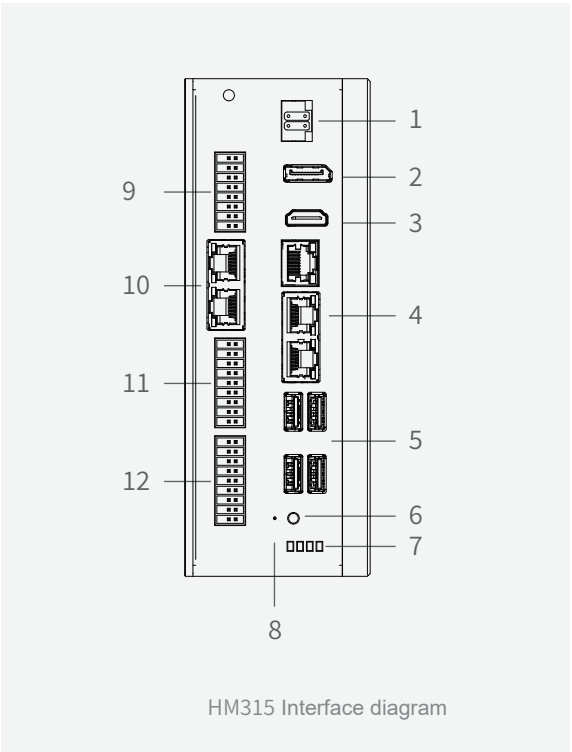
HM313

- 01 Power input interface (24V DC IN)
- 02 DP
- 03 HDMI
- 04 3 x LAN
- 05 3 x USB3.0, 1 x USB2.0
- 06 Power Button
- 07 LED (PWR、SATA、USER1、USER2)
- 08 Reset
- 09 COM1 (RS232/422/485)
- 10 COM2 (RS232)
- 11 Light Source & Trigger
- 12 DIO
- 13 Encoder



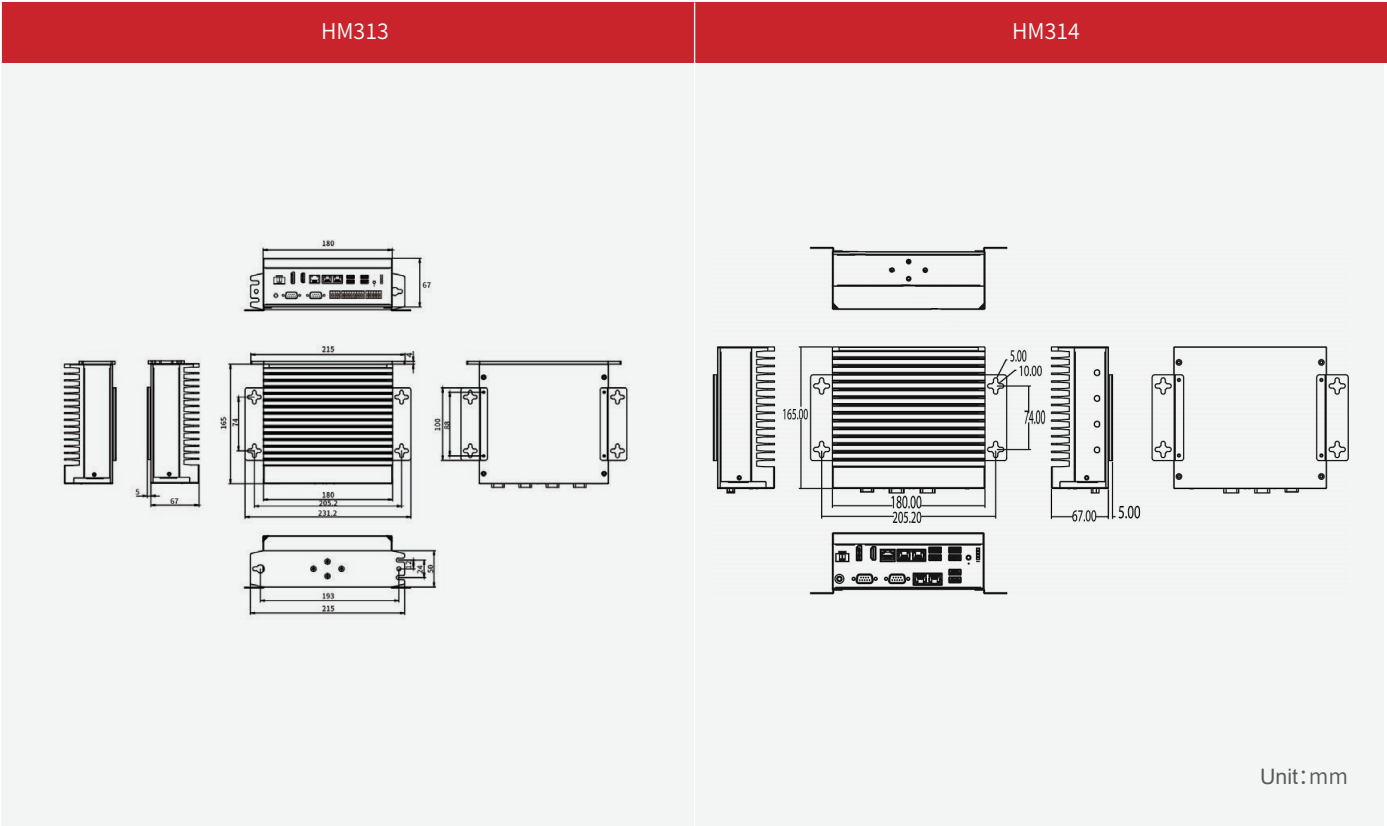
HM314

- 01 Power input interface (24V DC IN)
- 02 DP
- 03 HDMI
- 04 3 x LAN
- 05 3 x USB3.0, 1 x USB2.0
- 06 Power Button
- 07 LED (PWR、SATA、USER1、USER2)
- 08 Reset
- 09 COM1 (RS232/422/485)
- 10 COM2 (RS232)
- 11 2 x LAN
- 12 2 x USB2.0

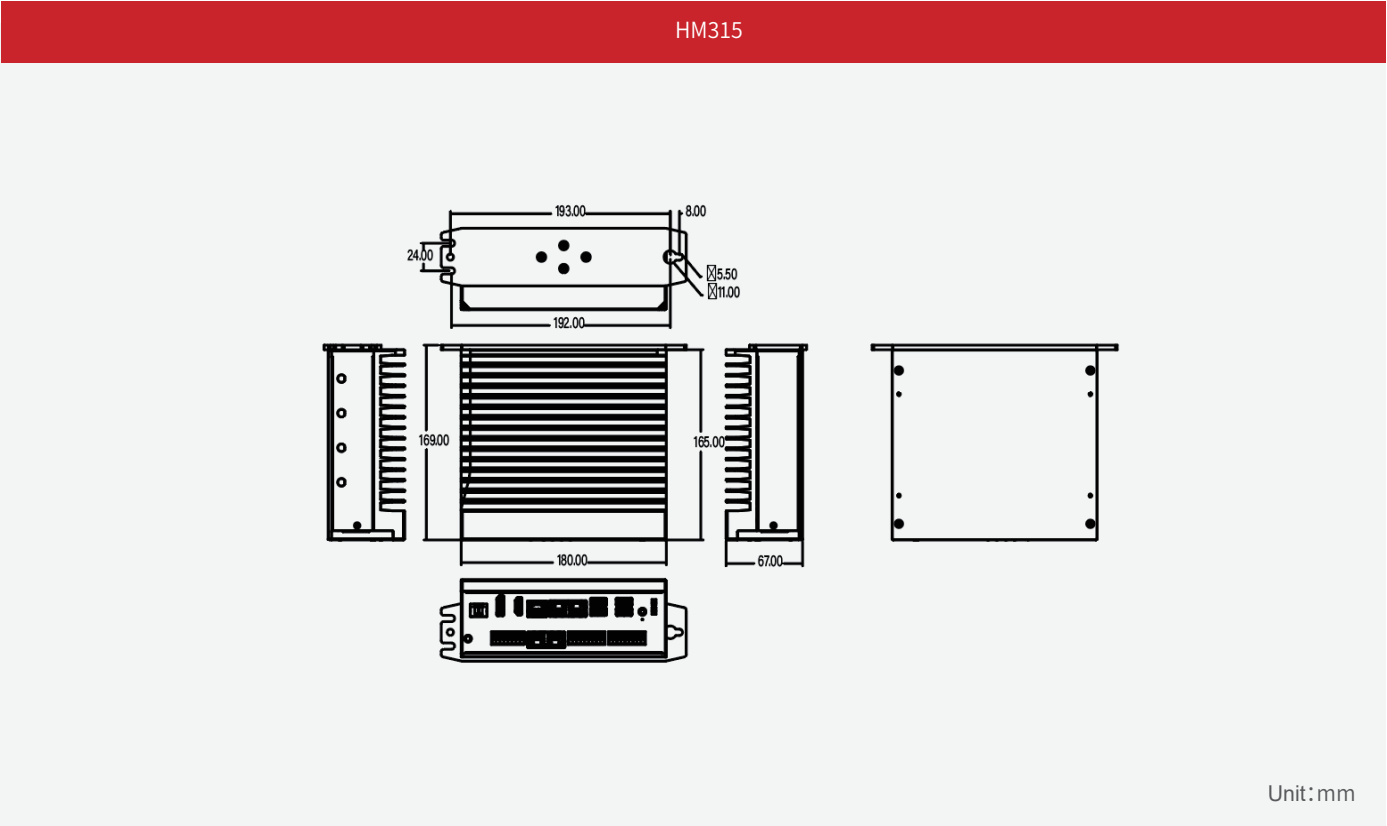
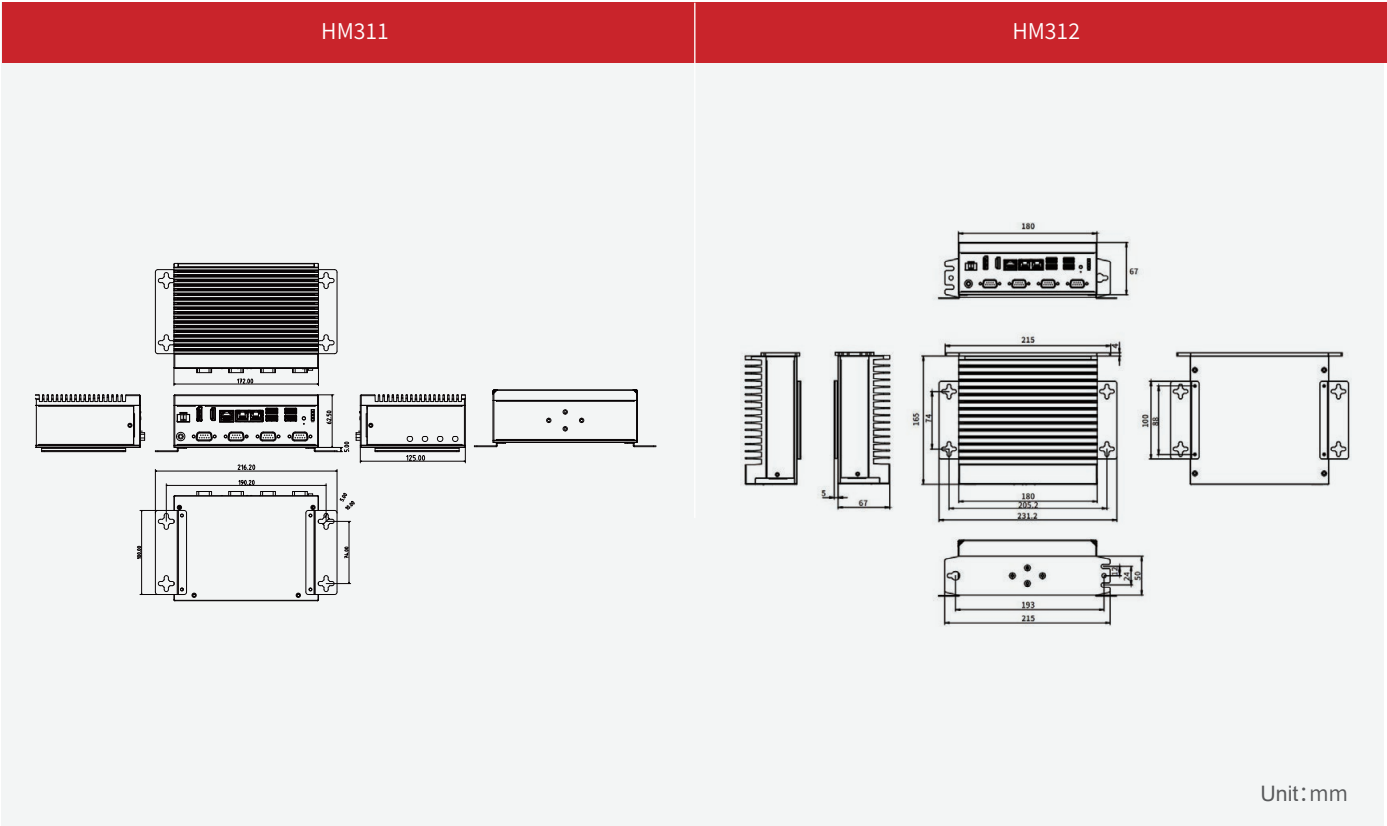


HM315

- 01 Power input interface (24V DC IN)
- 02 DP
- 03 HDMI
- 04 3 x LAN
- 05 3 x USB3.0, 2 x USB2.0
- 06 Power Button
- 07 LED (PWR, SATA, USER1, USER2)
- 08 Reset
- 09 COM1- 4
- 10 2 x LAN
- 11 DIO (10K)
- 12 DIO (200K)



Dimension

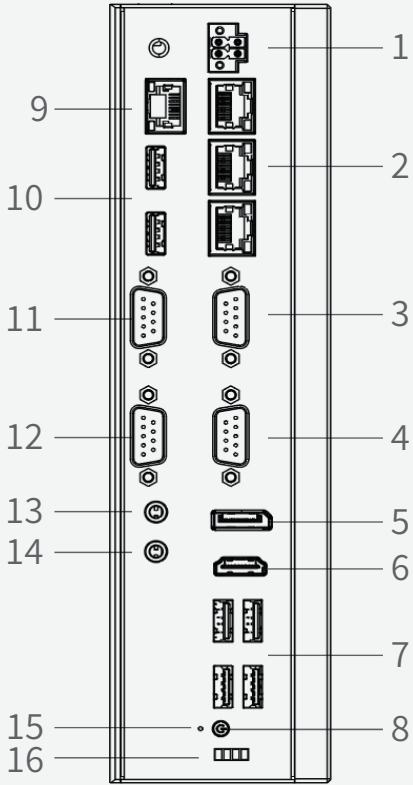


HM500 Series Product Specification

Attribute		HM511D	HM512
Product Image			
System Parameters	CPU	Intel® 11th Gen Core™ i3/i5/i7 Processor, i3-1115G4/i5-1135G7/i7-1165G7	
	Chipset	Intel® SoC Integrated	
	Memory	2 x SODIMM DDR4, MAX 64GB	
	Storage	1 x M.2 2280 SSD (SATA/NVMe)	1 x M.2 2280 SSD (SATA); 1 x SATA
External I/O	Display	1 x DP, MAX 4096 x 2304@60 Hz; 1 x HDMI, MAX 4K@30 Hz	1 x HDMI, MAX 4096 x 2304@60 Hz
	LAN	4 x LAN, Intel i210 GbE	4 x LAN, Intel i210-AT
	COM	2 x RS-232/485, 2 x RS232	3 x RS-232, 2 x RS-485
	DIO	/	
	USB	4 x USB3.2, 2 x USB2.0	4 x USB3.0
Others	Audio	1x Mic in; 1x Headphone	1 x Line out/Mic in
	REMOTE	Support remote switch, integrated in the power supply part	
	Power button	1 x Power switch button	
	USB	/	2 x USB2.0 Header
	Mini-PCIe	/	
	M.2	1 x M.2 3052, supports 4G/5G; 1 x M.2 2230, supports Wi-Fi + BT	1 x M.2 3052, supports 4G/5G; 1 x M.2 2230, supports Wi-Fi
	SIM	1 x Nano SIM	
Mechanical parameters	Dimension	236 x 165 x 63.5 mm	
	Net weight	2.2 kg	
	Installing	Guide rail mounting (wall-mounted optional)	
System	OS	Windows 10 22H2、Linux	Windows 10 IoT LTSC、Linux
Power	Input Voltage	24V DC IN, 4PIN Phoenix	
	power consumption	MAX 120W	
Environmental parameters	Operating Temperature	0~50℃	
	Storage Temperature	-20℃ ~60℃	

	Relative humidity	95% @ 40℃ (non-condensing)
	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64
	EMC	CE、FCC

Interface Description

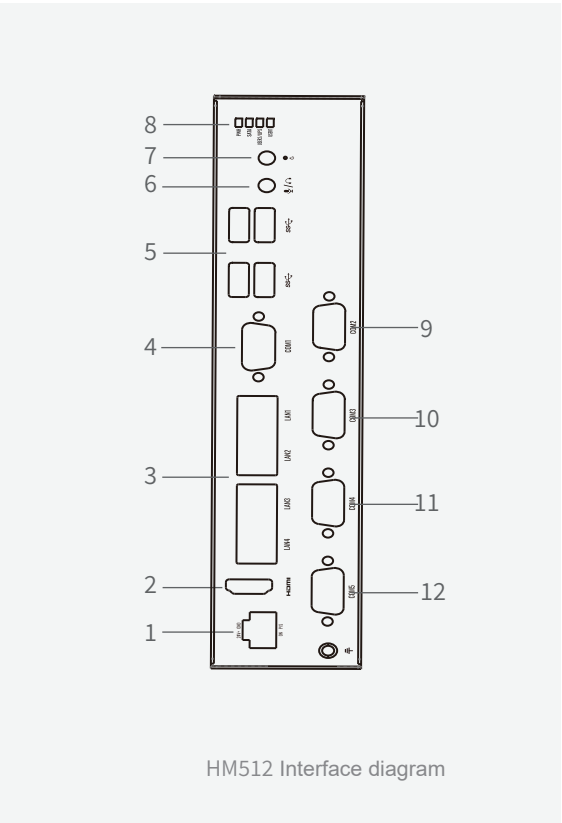


HM511D Interface diagram

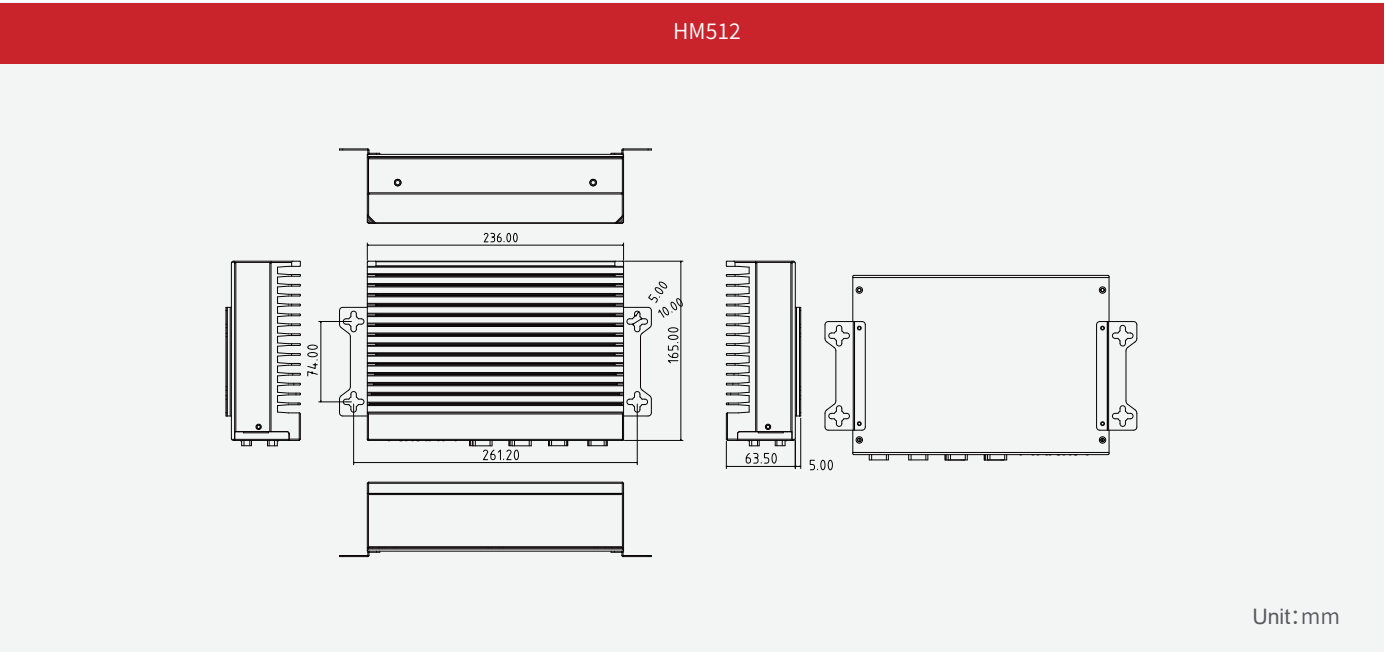
HM511D

- 01 Power input interface (24V DC IN)
- 02 3x LAN
- 03 COM1(RS232/485)
- 04 COM2 (RS232/485)
- 05 DP
- 06 HDMI
- 07 2x USB2.0, 2x USB3.2
- 08 Power Button
- 09 1x LAN
- 10 2x USB3.2
- 11 COM3(RS232)
- 12 COM4(RS232)
- 13 1x Headphone
- 14 1x Mic in
- 15 Reset
- 16 LED (PWR、SATA、USER1、USER2)

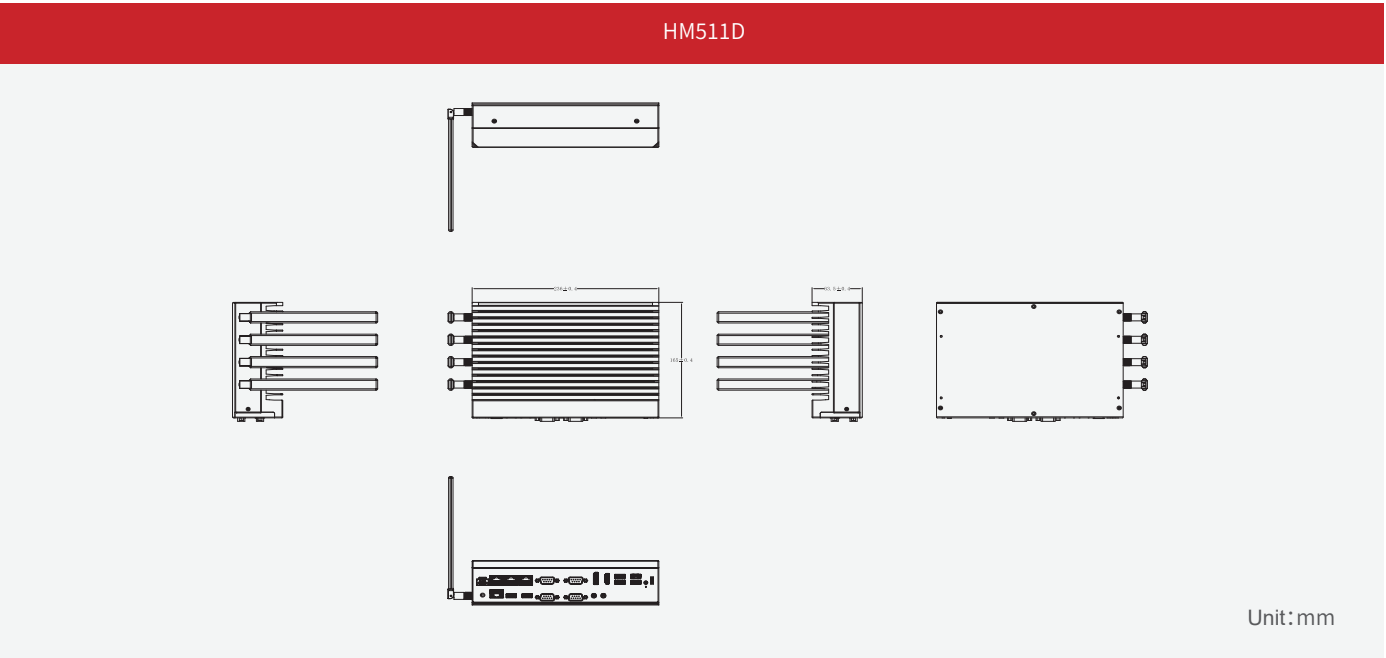
Interface Description



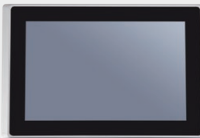
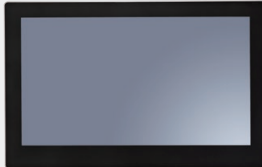
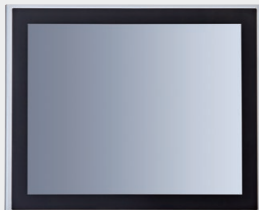
- HM512
- 01 Power input interface (24V DC IN)
 - 02 HDMI
 - 03 4x LAN
 - 04 COM1 (RS232)
 - 05 4x USB3.0
 - 06 1 x Line out/Mic in
 - 07 Power Button
 - 08 LED (USER1、USER2、UPS、SATA)
 - 09 COM2 (RS485)
 - 10 COM3 (RS485)
 - 11 COM4 (RS232)
 - 12 COM5 (RS232)



Dimension

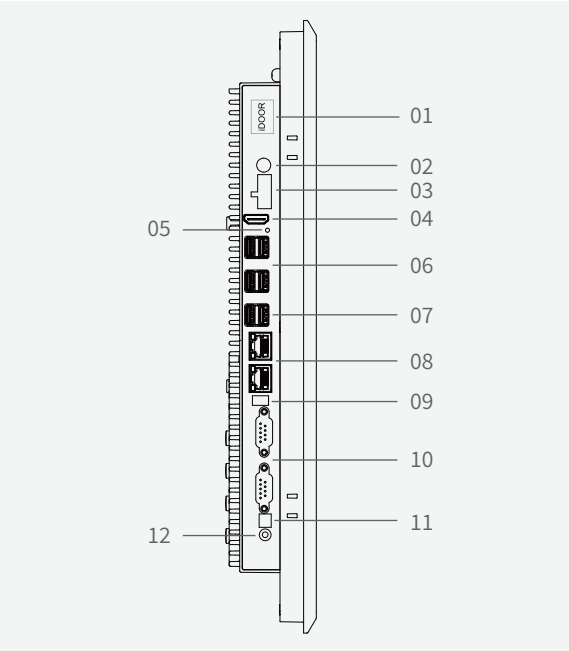


HPM132/133 Series Product Specification

Attribute		HPM132/133-AC101M	HPM132/133-AC121M	HPM132/133-AC15M	HPM132/133-AC156M	HPM132/133-AC17M	HPM132/133-AC19M	HPM132/133-AC215M	
Product Image									
System Parameters	CPU	Intel® J6412, N97&6th~12th Gen U-Series Core™ i3/i5/i7, J6412/N97/i3-1215U/i5-7200U/i5-1135G7/i5-1235U/i7-1255U							
	Memory	1x SODIMM DDR4, MAX 16GB (Some CPUs, 32G optional)							
	Storage	1 x M.2 2280 SSD (SATA/NVMe), 1 x SATA							
LCD	Screen typ	10.1" a-Si TFT-LCD	12.1" a-Si TFT-LCD	15" a-Si TFT-LCD	15.6" a-Si TFT-LCD	17" a-Si TFT-LCD	19" a-Si TFT-LCD	21.5" a-Si TFT-LCD	
	Native resolution	1280 x 800	1024 x 768		1920 x 1080	1024 x 768		1920 x 1080	
	Colors	16.7M			262K	16.7M			
	Brightness	430 cd/m²	500 cd/m²	350 cd/m²	250 cd/m²				300 cd/m²
	Viewing Angle	-85~85°(H), -85~85°(V)		-88~88°(H), -88~88°(V)		-85~85°(H), -85~85°(V)		-89~89°(H), -89~89°(V)	
	Backlit life	LED							
		34000h	50000h	50000h	30000h				50000h
Touch	Type	10-point capacitive touch							
	Transmittance	>85%							
	Surface hardness	Mohs 7H							
External I/O	Display	1x HDMI							
	LAN	2 x LAN, Intel i210-AT							
	COM	2 x RS-232/485							
	USB	4 x USB3.0, 2 x USB2.0							
	Audio	1 x Line-out/Mic-in							
	REMOTE	1 x Remote Switch Phoenix Terminal Interface							
	Power button	1 x AT/ATX DIP Switch							
Expand	iDOOR expand	/	Optional 2 x LAN/4 x COM/14 x GPIO						
	Mini-PCle	1 x Mini-PCle Full card, onboard SIM card slot, supports 3G/4G module							
	M.2	1 x M.2 Key E, supports WIFI/BT; 1 x M.2 Key B, supports SATA SSD							
Mechanical parameters	Overall dimensions	283.2 x 186.9 x 56.1mm	318.8 x 245 x 57.2mm	376.1 x 285.3 x 55.0mm	397 x 255 x 55.3mm	412.7 x 333.8 x 56.7mm	440 x 364 x 56.7mm	536.2 x 329.4 x 62.7mm	
	Opening size	275.3 x 179.0mm	304.0 x 230.0mm	365.6 x 276.8mm	386.0 x 244.0mm	400.1 x 321.5mm	428.2 x 352.2mm	520.0 x 313.0mm	
	Net weight	3.5Kg	4.3Kg	5.3Kg	6.5Kg		7.5Kg	8.5Kg	
System	OS	Windows® 7/10/11, Linux							
Power	Input Voltage	DC 9~36V 2-pin Phoenix Terminal							

Attribute		HPM132/133-AC101M	HPM132/133-AC121M	HPM132/133-AC15M	HPM132/133-AC156M	HPM132/133-AC17M	HPM132/133-AC19M	HPM132/133-AC215M
Environmental parameters	Operating Temperature	0~50℃						
	Storage Temperature	-20~60℃						
	Relative humidity	95%@40℃ (non-condensing)						
	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27						
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64						
	EMC	CE、FCC						
	IP Level	IP65 for front panel						

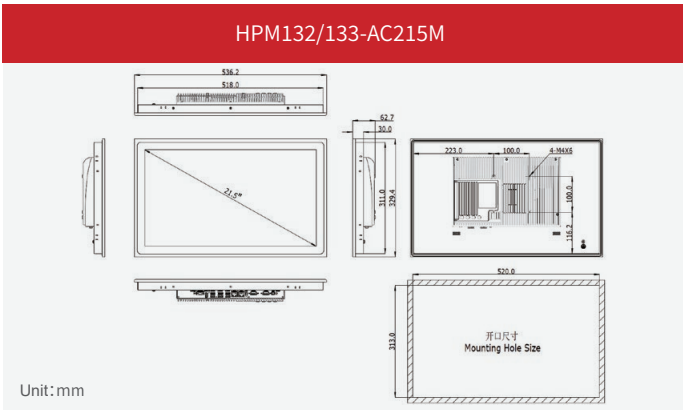
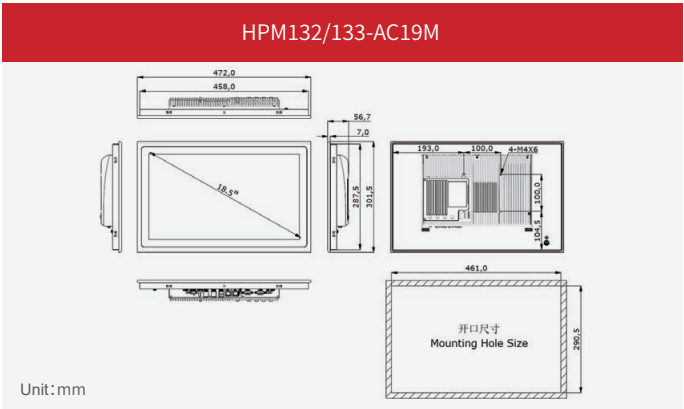
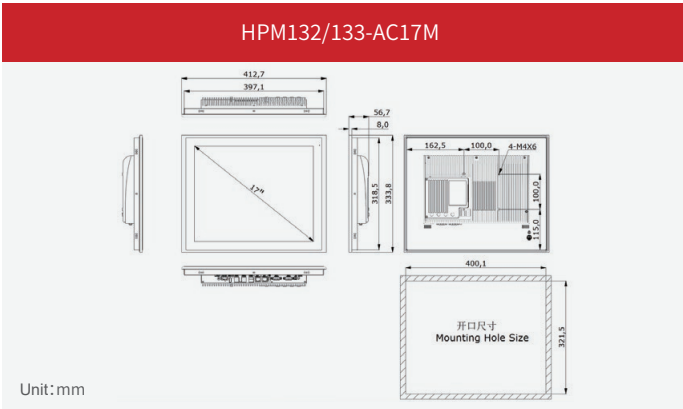
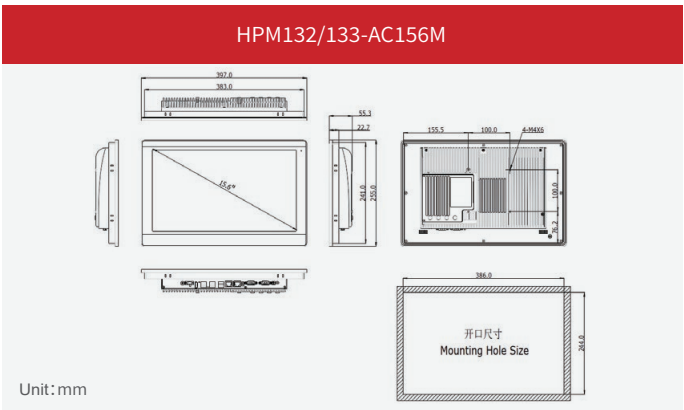
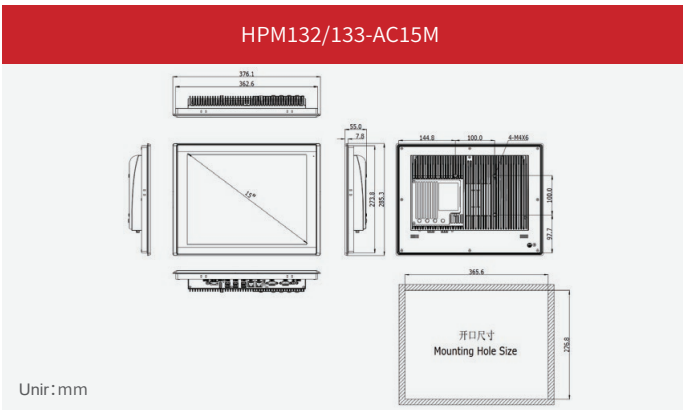
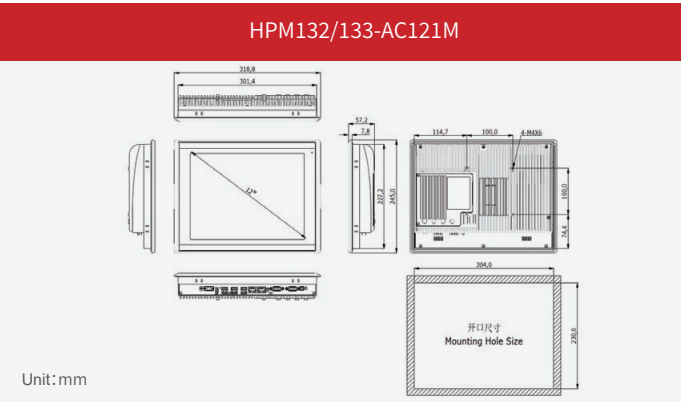
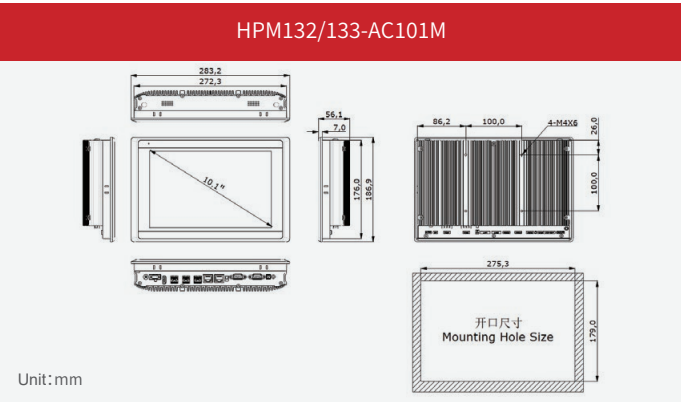
Interface Description



HPM132/133 SERIES

- 01 iDOOR (10.1" no interface)
- 02 Power Button
- 03 Power input interface(DC in 9~36V)
- 04 HDMI
- 05 Reset
- 06 4 x USB3.0
- 07 2 x USB2.0
- 08 2 x LAN
- 09 AT/ATX
- 10 2 x COM(RS-232/485)
- 11 SW
- 12 1 x Line-out/Mic-in

Dimension



HIGH PERFORMANCE COMPUTER

HC/HRC Series

HC6000 | HC7000

HRC-U | HRC-L

Product Characteristics

HWAINTEK high performance computer product series is designed to meet high performance computing power demand, featured by ultra-high performance and good interface expansion capability.

The products also feature fanless embedded design. At the same time, this series of products have PCI, PCIe and other interface expansion capabilities, and can meet the expansion and computing power demand of machine vision and other industries.

This series is also designed with rack-type products to meet the demand of customers for supercomputing power, super storage, and GPU expansion.

This series of products are widely used in industries and fields that require computing power and interfaces, such as machine vision, gene sequencing, photovoltaic AI detection, etc.

Application Scenarios

- Photovoltaic machine vision inspection
- Lithium battery winding inspection
- Gene sequencing
- 3C production line machine vision inspection
- Production line server data acquisition, storage and analysis

Product Introduction

HC6000 Series High Performance Computer

- Equipped with Sky/Kaby/Coffee Lake processor
- Multiple I/O form combinations to meet different application demands
- Support 4-route slot and realize multi-route PCI/PCIe expansion
- Modular design of internal components and cableless connection for stability
- Completely enclosed structure design to cope with harsh operating environment

HC8000 Series Performance Computer

- Equipped with 12th~14th Gen Intel® Core™ processors
- Supports RAID 0/1 for speed-up, expansion & mirror backup
- Multiple I/O combinations for diverse industrial scenarios
- Wide voltage (9-36V optional) & ESD protection for harsh environments
- Modular cableless design: high reliability, easy maintenance, vibration resistance

HC7000 Series High Performance Computer

- Equipped with Intel® 10th Comet/Rocket Lake processor
- Multiple I/O form combinations to support 11-route network port connection at most
- Support 2/4-route slot and realize multi-route PCI/PCIe expansion
- Modular design of internal components and cableless connection for stability
- Completely enclosed structure design with external fan to solve the problem of high power-consumption heat dissipation

HRCSeries Industrial Motherboard

- Supports 6th~14th Gen Intel® Core™ processors
- Industrial-grade design, covering ATX, Micro-ATX, Mini-ITX form factors
- Wide-temperature components with military-grade reliability for extreme environments
- Full interface coverage & flexible modular design for fast solution deployment
- Software & ecosystem support, a solid foundation for intelligent upgrades

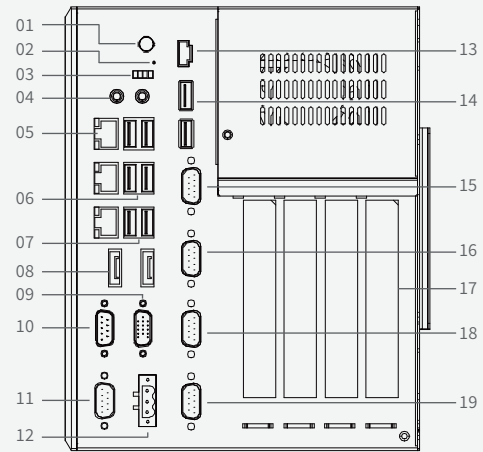


HC6000 Series Product Specification

Attribute		HC6100	HC6110	HC6120	HC6114	HC6124
Product Image						
System Parameters	CPU	Intel® 6th~9th Gen Core™ Processors, i3-8100/i5-6400/i5-6500/i5-8400/i5-9400/i5-9500/i7-6700/i7-9700				
	Memory	2 x SODIMM DDR4, MAX 64GB				
	Storage	1 x M.2 2280 SSD (SATA); 1 x SATA				
External I/O	Display	2 x DP, MAX 4096 x 2304@60 Hz; 1 x VGA, MAX 1920 x 1080@60 Hz				
	LAN	2 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN		5 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN	2 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN	5 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN
	COM	1 x RS-232; 1 x RS-232/422/485	2 x RS-232; 1 x RS-232/422/485 3 x RS-232/485	1 x RS-232; 1 x RS-232/422/485 2 x RS-232/485	2x RS-232; 1 x RS-232/422/485 3 x RS-232/485	1 x RS-232; 1 x RS-232/422/485 2 x RS-232/485
	DIO	/				
	USB	4x USB3.0, 2x USB2.0	4x USB3.0, 4x USB2.0			
	Audio	1 x Line-out, 1 x Mic-in (Realtek ALC 662)				
	REMOTE	/	1 x REMOTE			
	Power button	1 x Power switch button				
Internal expansion	USB	/	1 x USB 2.0 Type-A			
	miniPCle	1 x Full-size Mini PCle, supports WLAN/WWAN module				
	M. 2	/				
	SIM	/				
	PCle	/			1 x PCle x 16, 1 x PCle x 4 (x2 signal)	
	PCI	/			2 x PCI	
Physical characteristics	Dimension	220 x 226 x 68mm (L x W x H)	220 x 226 x 75mm (L x W x H)		220 x 226 x 176mm (L x W x H)	
	Net weight	3.0kg	3.3kg		4.3kg	
System	OS	Windows 7 (Only 6th generation), Windows 10, centos 7/8, ubuntu 18.04~24.04 etc.				
Power	Input Voltage	24V DC (Optional 9-36V configuration)				
Environmental parameters	Operating Temperature	0~50°C				
	Storage Temperature	-20~60°C				
	Relative humidity	95%@40°C (non-condensing)				

Attribute		HC6100	HC6110	HC6120	HC6114	HC6124
	ILash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27				
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64				
	EMC	CE、FCC				

Interface Description



*Refer to this diagram for HC6110, HC6100 interfaces

HC6114

- 01

Power Button
- 02

Reset
- 03

LED (SATA、Standby、DG、WD)
- 04

Line-out、Mic-in
- 05

3x LAN
- 06

4 x USB3.0
- 07

2x USB2.0
- 08

2x DP
- 09

VGA
- 10

COM1 (RS232)

11

COM2 (RS485)

12

Power input interface (24V DC IN)

13

Remote (Remote switch)

14

2x USB2.0

15

COM3 (RS485)

16

COM4 (RS485)

17

(1x PCIe16x (3.0)、
1x PCIe4x (2.0)、2x PCI)

18

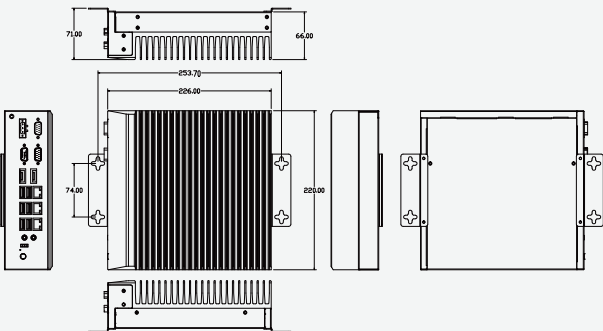
COM5 (RS232)

19

COM6 (RS232)

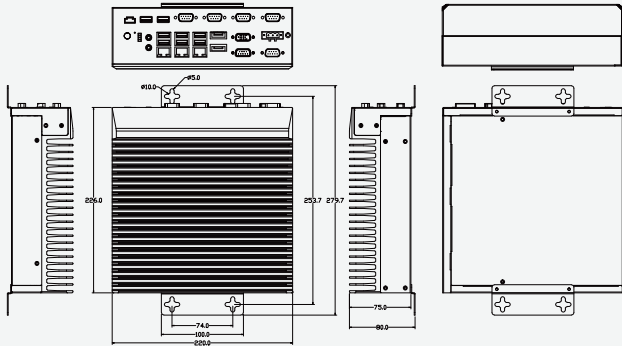
Dimension

HC6100



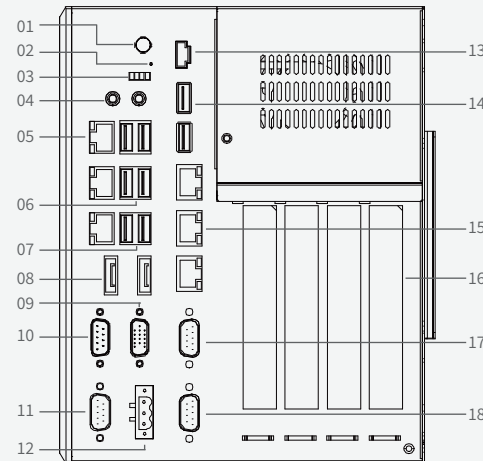
Unit: mm

HC6110



Unit: mm

*Refer to this dimension for HC6120



*Refer to this diagram for HC6120 interface

HC6124

- 01

Power Button
- 02

Reset
- 03

LED (SATA、Standby、DG、WD)
- 04

Line-out、Mic-in
- 05

3 x LAN
- 06

4 x USB3.0
- 07

2x USB2.0
- 08

2x DP
- 09

VGA
- 10

COM1 (RS232)

11

COM2 (RS485)

12

Power input interface (24V DC IN)

13

Remote (Remote switch)

14

2x USB2.0

15

3 x LAN

16

(1x PCIe16x (3.0)、
1x PCIe4x (2.0)、2x PCI)

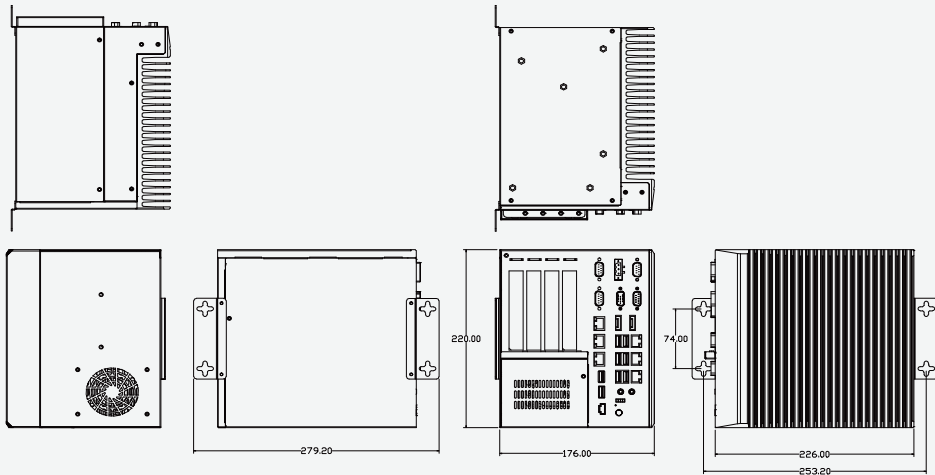
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COM3 (RS232)

18

COM4 (RS485)

HC6124



Unit: mm

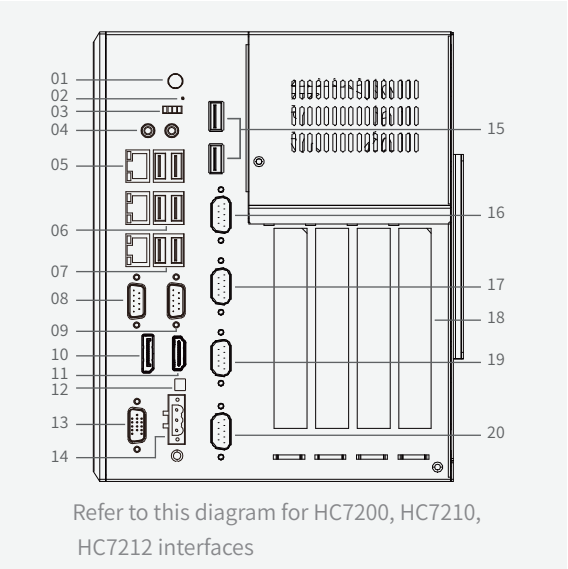
*Refer to this dimension for HC6114

HC7000 Series Product Specification

Attribute		HC7200	HC7210	HC7220	HC7214	HC7224	
Product Image							
System Parameters	CPU	Intel® 10th~11th Gen Core™ Processors, i5-10400/i7-10700					
	Memory	2 x SODIMM DDR4, MAX 64GB					
	Storage	H420E(Default): 2 x M.2 2280 SSD (SATA); Q470/H470: 2 x M.2 2280 SSD (SATA), supports RAID 0/RAID 1, BIOS switch					
External I/O	Display	1 x DP1.4, MAX 4096 x 2304@60 Hz; 1 x HDMI1.4, MAX 4096 x 2160@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz; H420E(Default): Dual independent display, Q470/H470: Triple independent display					
	LAN	2 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN		5 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN		2 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN	5 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN
	COM	1 x RS-232; 1 x RS-232/422/485	2 x RS-232; 1 x RS-232/422/485 3 x RS-232/485	1 x RS-232; 1 x RS-232/422/485 2 x RS-232/485		2x RS-232; 1 x RS-232/422/485 3 x RS-232/485	1 x RS-232; 1 x RS-232/422/485 2 x RS-232/485
	DIO	/					
	USB	H420E(Default): 4 x USB3.0, 2 x USB2.0 ; Q470/H470: 6 x USB 3.0	H420E(Default): 4 x USB3.0, 4 x USB2.0 ; Q470/H470: 6 x USB 3.0, 2 x USB2.0				
	Audio	1 x Line out, 1 x Mic in					
	REMOTE	1 x Remote switch					
	Power button	1 x Power switch button, 1 x Reset button; AT/ATX					
	Internal expansion	USB	/	1 x USB 2.0 Type-A			
miniPCle		/					
M. 2		H420E(Default): 1 x M.2 2230 supports Wi-Fi, only supports PCIe procotol, Q470/H470: 1 x M.2 2230 suppoets Wi-Fi, support CNVI and PCIe procotol; 1 x M.2 3052 supports 4G/5G					
SIM		1 x Nano SIM					
PCIe		/			1 x PCIe x 16, 1 x PCIe x 4 (x2 signal)		
PCI		/			2 x PCI		
Physical characteristics	Dimension	220 x 226 x 68mm (L x W x H)	220 x 226 x 75mm (L x W x H)		220 x 226 x 176mm (L x W x H)		
	Net weight	3.0kg	3.4kg		4.3kg		

Attribute		HC7200	HC7210	HC7220	HC7214	HC7224
System	OS	Windows 10/11, centos 8, ubuntu 20.04/22.04/24.04				
Power	Input Voltage	24V DC (Optional 9-36V configuration)				
Environmental parameters	Operating Temperature	0~50℃				
	Storage Temperature	-20~60℃				
	Relative humidity	95%@40℃ (non-condensing)				
	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27				
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64				
	EMC	CE、FCC				

Interface Description



HC7214

- 01

Power Button
- 02

Reset
- 03

LED (DG、Standby、SATA、WD)
- 04

Line-out、Mic-in
- 05

3x LAN
- 06

4x USB3.0
- 07

2x USB2.0
- 08

COM1 (RS232)
- 09

COM2 (RS485)
- 10

DP
- 11

HDMI
- 12

Remote (Remote switch)
- 13

VGA
- 14

Power input interface (24V DC IN)
- 15

2x USB2.0
- 16

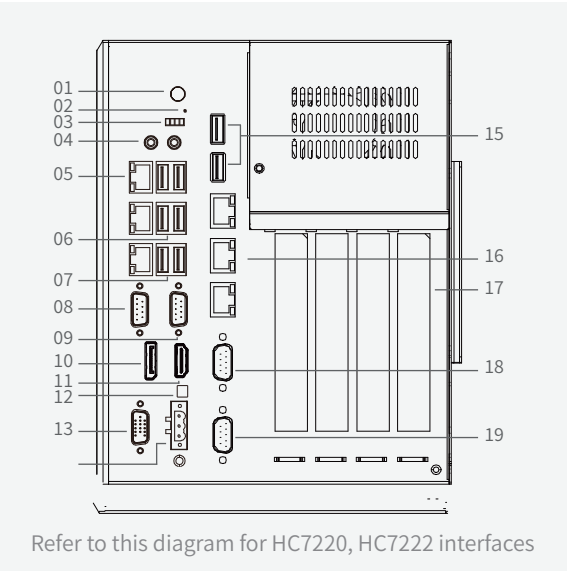
COM3 (RS485)
- 17

COM4 (RS485)
- 18

(1x PCIe3.0 (16x)、
1x PCIe3.0 (4x)、2x PCI
- 19

COM5 (RS232)
- 20

COM6 (RS232)



HC7224

- 01

Power Button
- 02

Reset
- 03

LED (DG、Standby、SATA、WD)
- 04

Line-out、Mic-in
- 05

3 x LAN
- 06

4 x USB3.0
- 07

2x USB2.0
- 08

COM1 (RS232)
- 09

COM2 (RS485)
- 10

DP
- 11

HDMI
- 12

Remote (Remote switch)
- 13

VGA
- 14

Power input interface (24V DC IN)
- 15

2x USB2.0
- 16

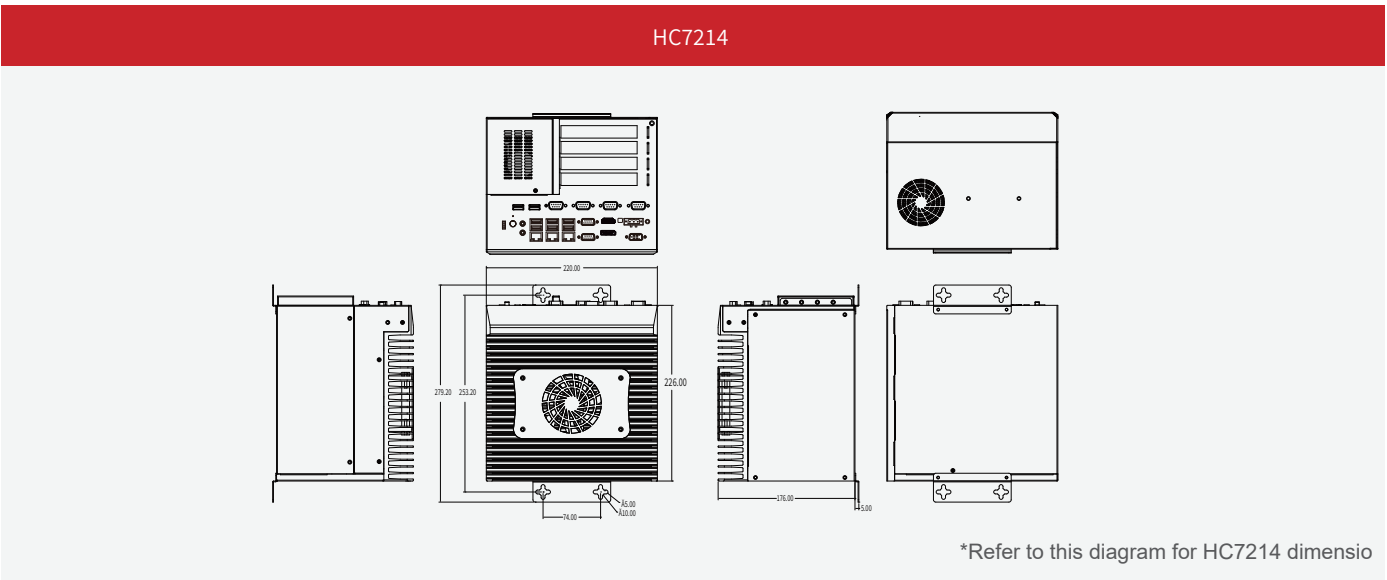
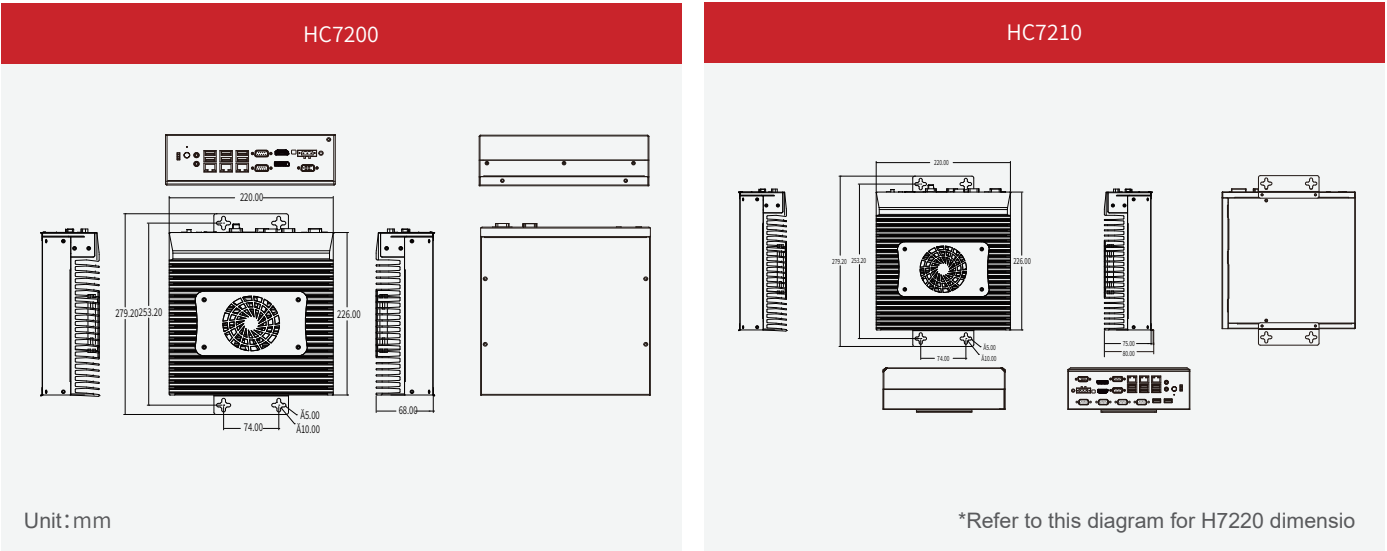
3 x LAN
- 17

(1x PCIe3.0 (16x)、
1x PCIe3.0 (4x)、2x PCI
- 18

COM3 (RS232)
- 19

COM4 (RS485)

Dimension

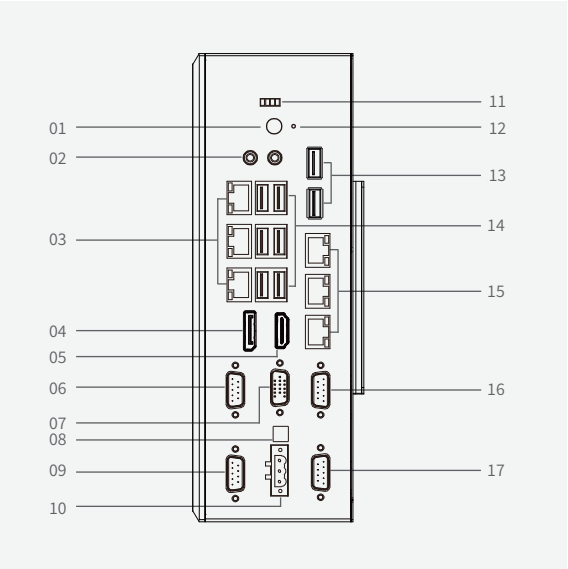


HC8000 Series Product Specification

Attribut		HC8010	HC8020	HC8014	HC8114
Product Image					
System Parameters	CPU	Intel® 12th~14th Gen Core™ Processors, i7-12700/i7-13700/i7-12700K/i9-12900/i9-13900			
	Memory	2 x SODIMM DDR5, MAX 64GB			
	Storage	H610(Default): 1 x M.2 2280 SSD (SATA); Q670/H670: 1 x M.2 2280 SSD (SATA), Optional modification NVMe; Optional support 2 x SATA, Q670/H670 supports RAID 0/RAID 1, BIOS switch;			
External I/O	Display	1 x DP1.4a, MAX 4096 x 2304@60 Hz; 1 x HDMI2.0b, MAX 4096 x 2160@60 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz			
	LAN	2 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN	5 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN	3 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN	2 x Intel i210 GbE LAN; 1 x Intel i219 GbE LAN
	COM	2 x RS-232; 1 x RS-232/422/485 3 x RS-232/485	1 x RS-232; 1 x RS-232/422/485 2 x RS-232/485	2 x RS-232; 1 x RS-232/422/485 3 x RS-232/485	
	DIO	/			
	USB	H610(Default): 4 x USB3.2 (2 x GEN1, 2 x GEN2), 4 x USB2.0 ; Q670/H670: 6 x USB3.2 (GEN2), 2 x USB2.0			
	Audio	1 x Line out, 1 x Mic in			
	REMOTE	1 x Remote switch			
	Power button	1 x Power switch button, 1 x Reset button; AT/ATX			
Internal expansion	USB	1 x USB 2.0 Type-A			
	miniPCIe	/			
	M. 2	1 x M.2 2230 supports Wi-Fi (supports PCIe protocol); H610(Default): 1 x M.2 3042 supports 4G; Q670/H670: 1 x M.2 3052 supports 4G/5G;			
	SIM	1 x Nano SIM			
	PCIe	/		1 x PCIe x 16, 1 x PCIe x 4 (x2 signal)	
	PCI	/		2 x PCI	
Mechanical parameters	Dimension	220 x 226 x 75mm (L x W x H)		220 x 226 x 176mm (L x W x H)	220 x 360x 176mm (L x W x H)
	Net weight	3.4kg		4.3kg	5.0kg

Attribute		HC8010	HC8020	HC8014	HC8114
System	OS	Windows 10/11, centos 8, ubuntu 20.04/22.04/24.04			
Power	Input Voltage	24V DC (Optional 9-36V configuration)			AC 90~264V
Environmental parameters	Operating Temperature	0~50℃			
	Storage Temperature	-20~60℃			
	Relative humidity	95%@40℃ (non-condensing)			
	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27			
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64			
	EMC	CE、FCC			

Interface Description



HC8020

- 01

Power Button
- 02

Line-out, Mic-in
- 03

3 x LAN
- 04

DP
- 05

HDMI
- 06

COM1 (RS232/422/485)
- 07

VGA
- 08

Remote
- 09

COM2 (RS232)
- 10

Power input interface(24V DC IN)
- 11

LED(DG、Standby、SATA、WD)
- 12

Reset
- 13

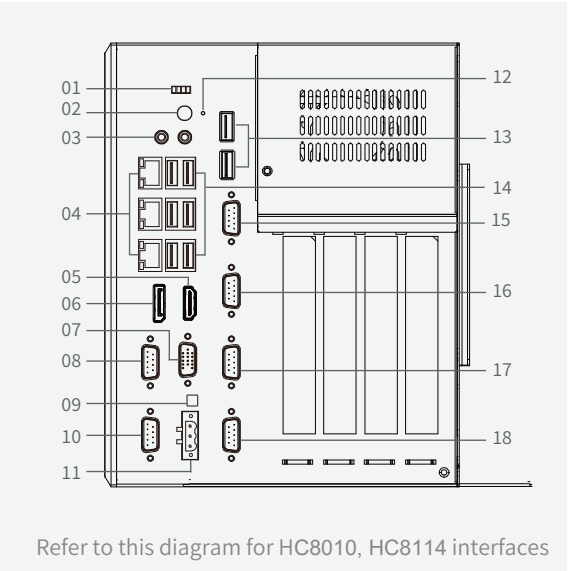
2 x USB2.0
- 14

6 x USB3.2
- 15

3 x LAN
- 16

COM3 (RS232/485)
- 17

COM4 (RS232/485)



HC8014

- 01

LED(DG、Standby、SATA、WD)
- 02

Power Button
- 03

Line-out, Mic-in
- 04

3 x LAN
- 05

HDMI
- 06

DP
- 07

VGA
- 08

COM1 (RS232/422/485)
- 09

Remote
- 10

COM2 (RS232)
- 11

Power input interface(24V DC IN)
- 12

Reset
- 13

2 x USB2.0
- 14

6 x USB3.2
- 15

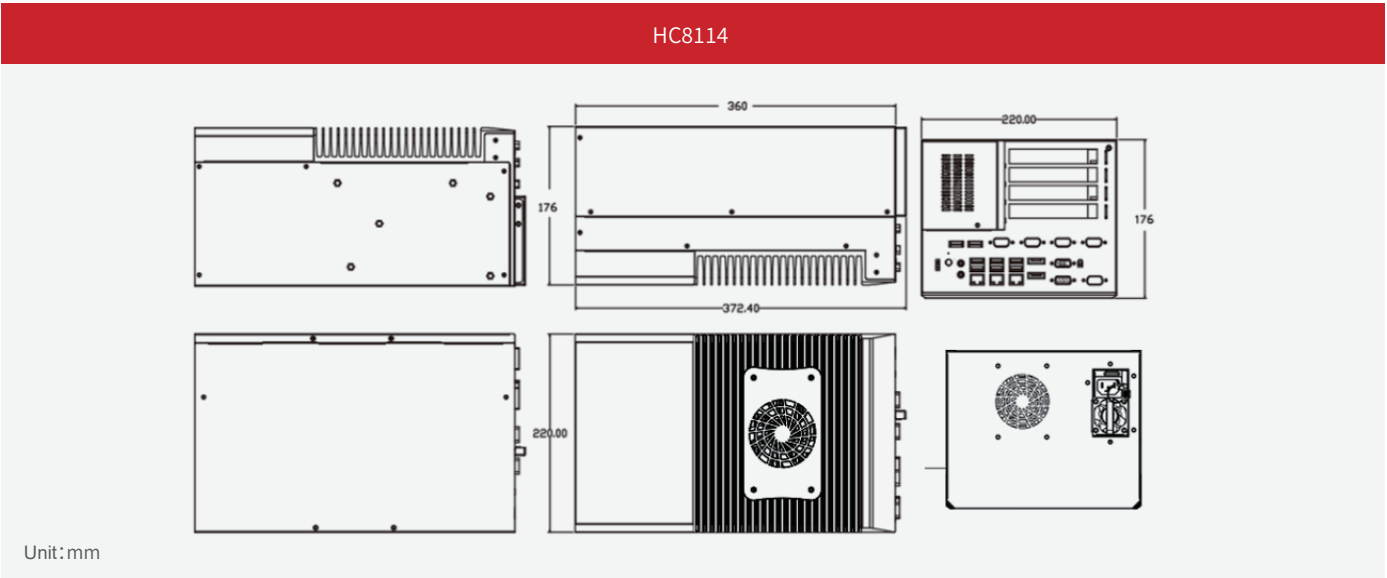
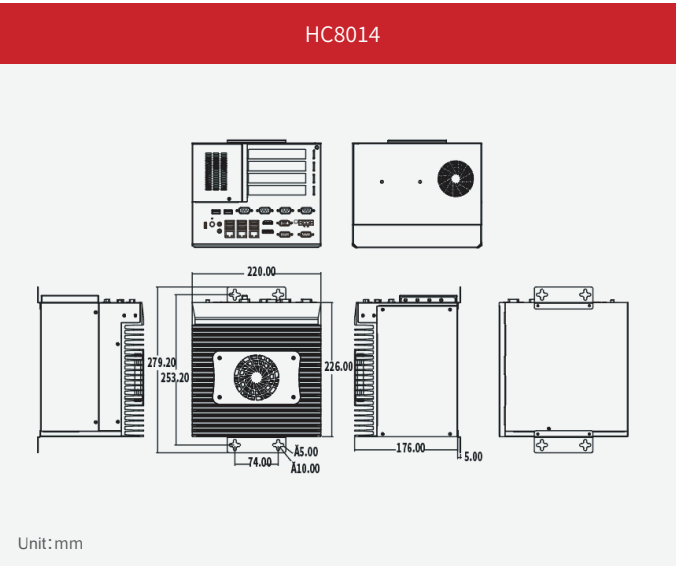
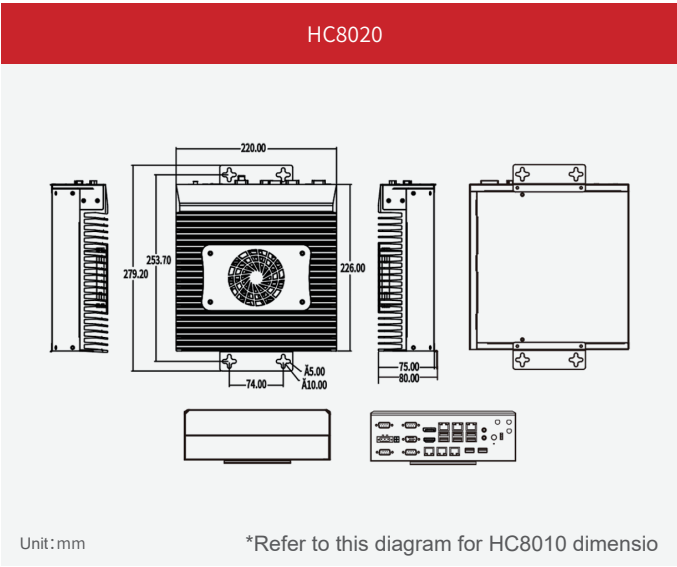
COM3 (RS232/485)
- 16

COM4 (RS232/485)
- 17

COM5 (RS232/485)
- 18

COM6 (RS232)

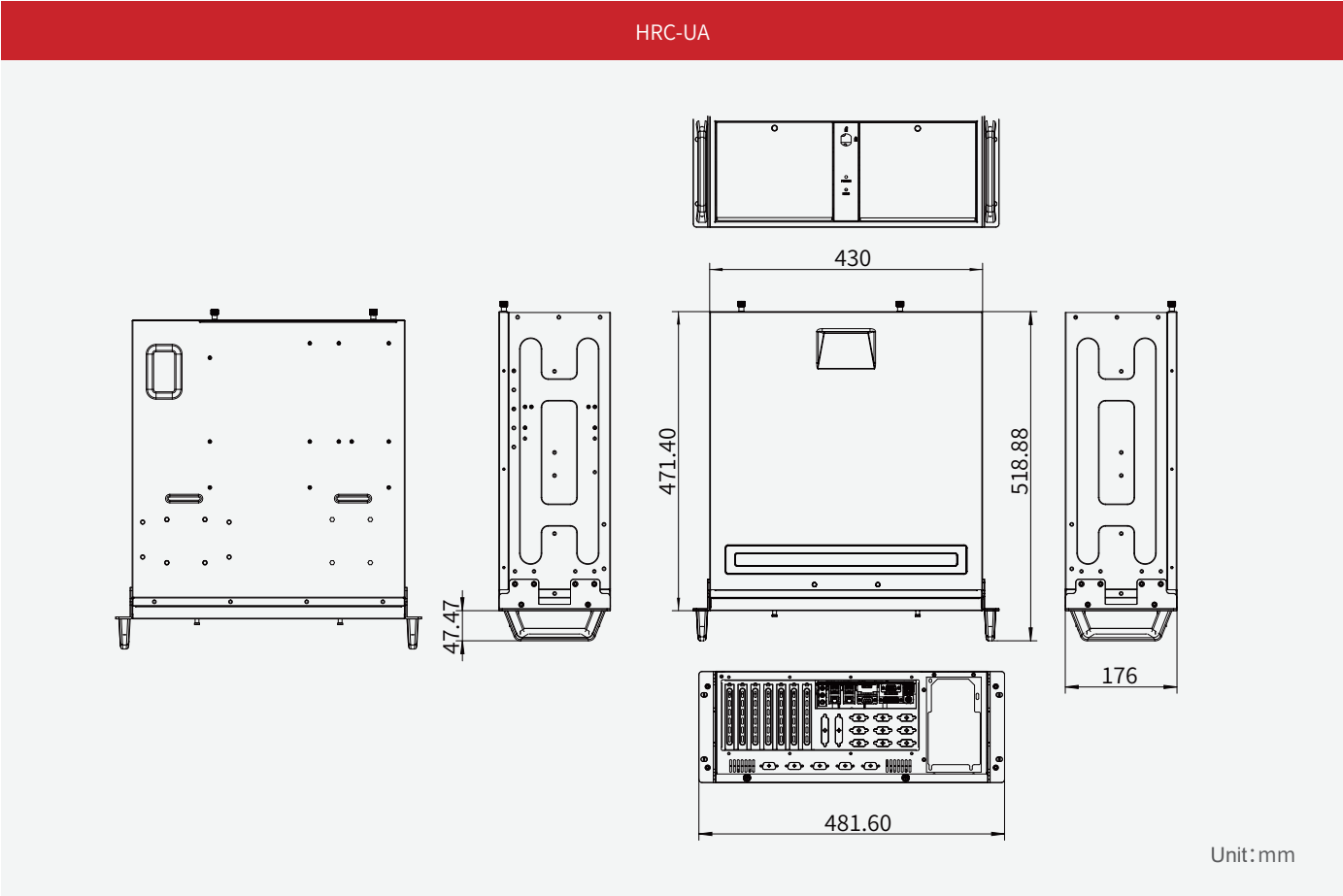
Dimension



HRC Series Industrial Chassis

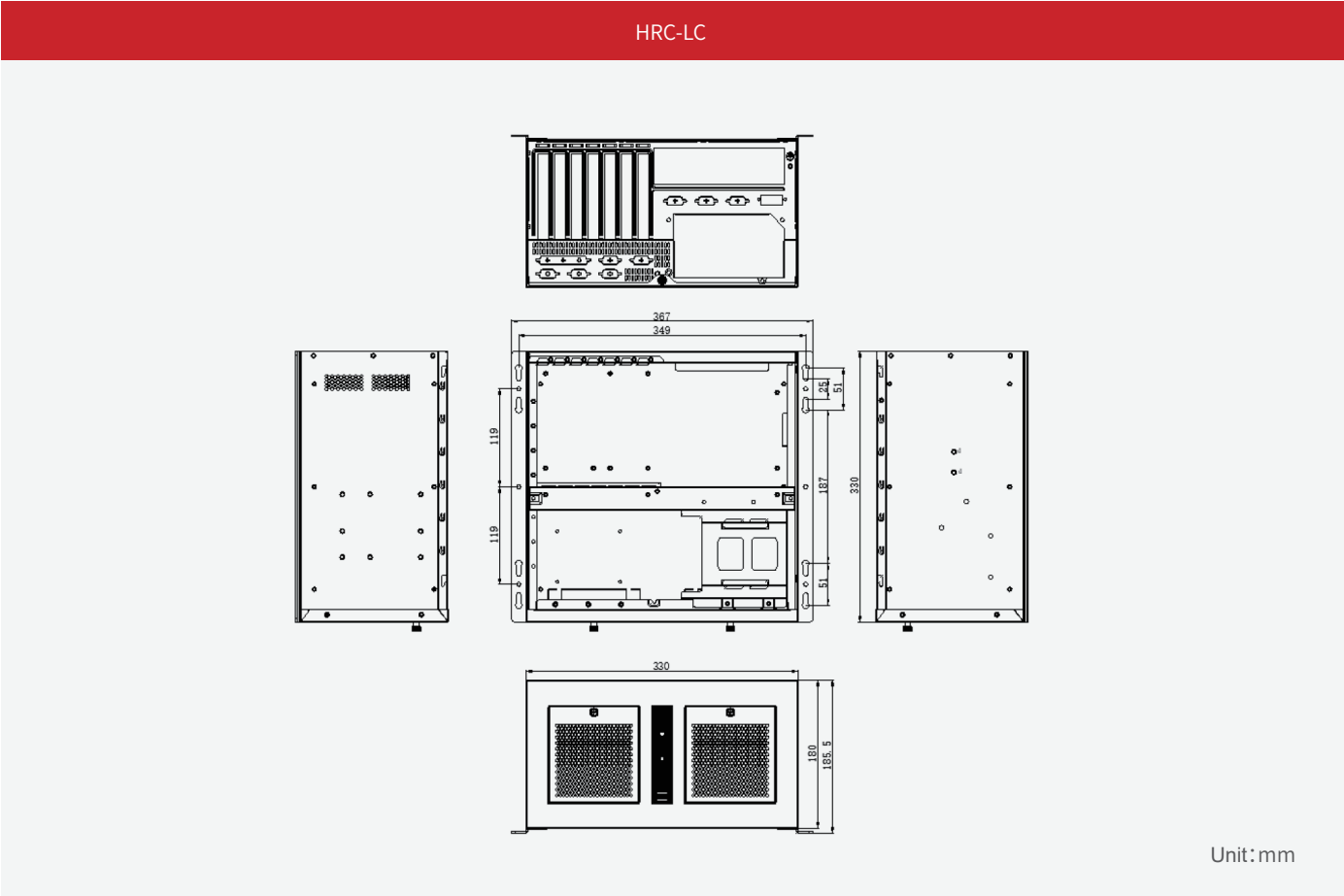
Attribute	HRC-UA
Product Image	

Dimension



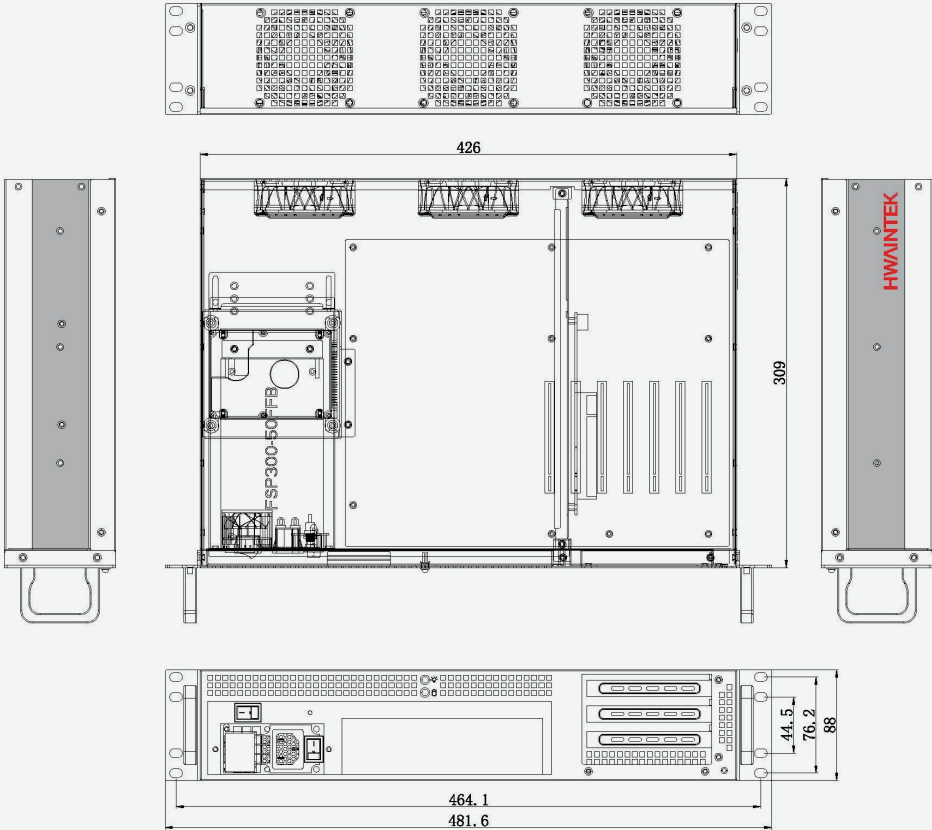
Attribute	HRC-LC
Product Image	

Dimension



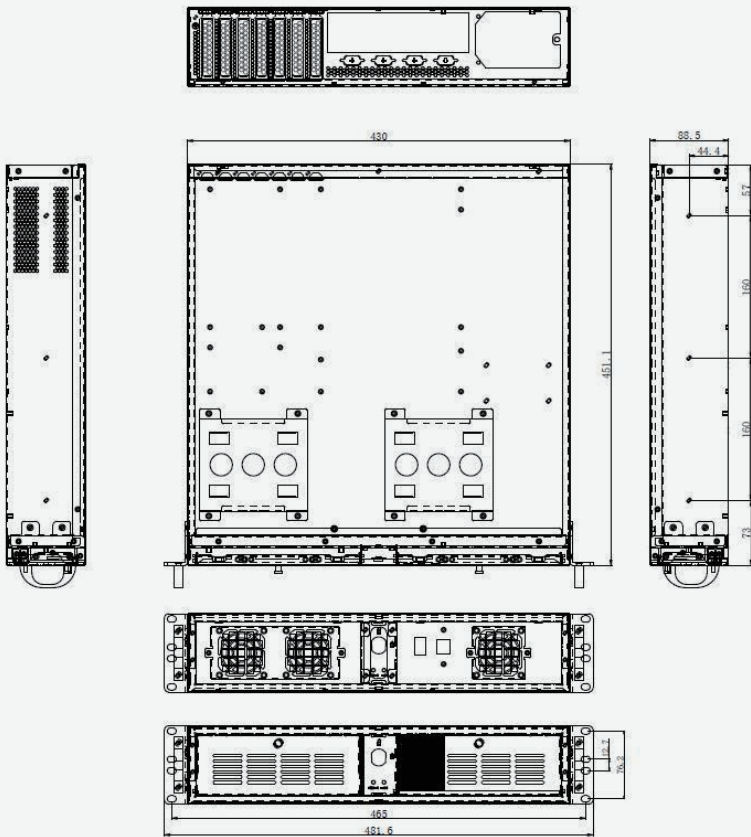
Attribute	HRC-SA
Product Image	

Dimension

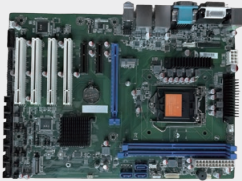
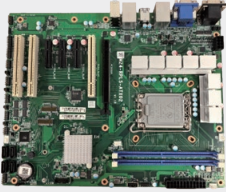
HRC-SA	
 Unit: mm	

Attribute	HRC-SB
Product Image	

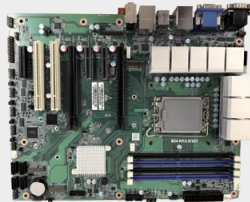
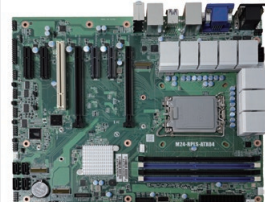
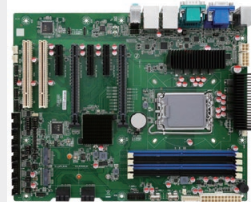
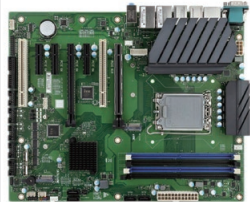
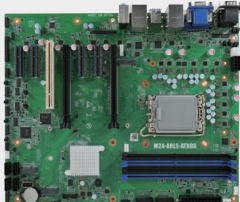
Dimension

HRC-SB	
 Unit: mm	

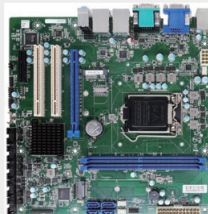
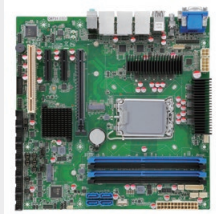
HRC Series Industrial Motherboard Specification

Attribute		HE-Z390-A-RC-A	HE-Z390D-A-RC	HE-H470-RC	HE-W480-RC	HE-H610D-RC
Product Image						
System Parameters	CPU	Intel® 6/8/9th Gen Core/Pentium/Celeron Processors	Intel® 8/9th Gen Core/Pentium/Celeron Processors	Intel® 10th Gen Core/Pentium/Celeron Processors	Intel® 10/11th Gen Core Processors	Intel® 12/13/14th Gen Core/Pentium/Celeron Processors
	Chipset	Intel® Z390	Intel® Z390/Q370	Intel® H470	Intel® Comet Lake, W480	Intel® H610
Memory	Feature	2x UDIMM DDR4; Max. 64GB	4 x UDIMM DDR4; Max. 128GB	2 x UDIMM DDR4; Max. 64GB	4 x UDIMM DDR4; Max. 128GB	2 x UDIMM DDR4; Max. 64GB
Rear I/O	Display	1 x DVI, MAX 1920 x 1200@60 Hz; 1 x HDMI, MAX 4096 x 2160@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz	1 x DP, MAX 4K@60 Hz; 1 x HDMI, MAX 4K@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz	1 x DVI, MAX 1920 x 1200@60 Hz; 1 x HDMI, MAX 4096 x 2160@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz		1 x DP, MAX 4K@60 Hz; 1 x HDMI, MAX 4K@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz
	LAN	1 x Intel i219-V GbE LAN; 1 x Intel i226-V GbE LAN	1 x Intel i210-V GbE LAN; 1 x Intel i219-V GbE LAN	1 x Intel i219-V GbE LAN; 1 x Intel i225-V GbE LAN	1 x Intel i219-LM GbE LAN; 1 x Intel i210 GbE LAN	1 x Intel i219-V GbE LAN; 1 x Intel i210-V GbE LAN
	COM	1 x RS232	2 x RS-232/422/485	1 x RS-232		2 x RS232/422/485
	USB	4 x USB3.0; 2 x USB2.0	4 x USB3.2; 2 x USB2.0	6 x USB3.0		4 x USB3.0; 2 x USB2.0
	Audio	Realtek HDA Codec; 1 x Line-Out + Line-In + MIC	Realtek ALC897; 1 x Line-Out + Line-In + MIC-In	Realtek HDA Codec; 1 x Line-Out + Line-In + MIC		Realtek ALC897; 1 x Line-Out + Line-In + MIC-In
Internal expansion	PCIe	1x PCI-E 16x Slot (PCIe 16X GEN3); 2x PCI-E 4x Slot (PCIe 4X GEN3)	2x PCI-E 16x Slot (PCIe 8X GEN3); 3x PCI-E 4x Slot (PCIe 4X GEN3)	1x PCI-E 16x Slot (PCIe 16X GEN3); 1x PCI-E 4x Slot (PCIe 2X GEN3); 1x PCI-E 4x Slot (PCIe 4X GEN3)	1x PCI-E 16x Slot (PCIe 16X GEN3); 1x PCI-E 16x Slot (PCIe 8X GEN3); 3x PCI-E 4x Slot (PCIe 4X GEN3)	1x PCI-E 16x Slot (PCIe 16X GEN4); 2x PCI-E 4x Slot (PCIe 2X GEN3); 1x PCI-E 4x Slot (PCIe 1X GEN3)
	Mini-PCIe	1 x Mini PCI-E(WIFI+4G/3G, with 1 x SIM Card)	/		1 x Mini PCI-E (WIFI+4G/3G, with 1 x Full-Size SIM Card)	/
	PCI	4 x PCI	2 x PCI	4 x PCI	2 x PCI	3 x PCI
	M.2	/	1 x M.2 2230 (WIFI+BT, supports CNVi & PCIe 3.0 signal); 1 x M.2 2280 SSD (NVMe/SATA)	1 x M.2 2230 (WIFI+BT, PCIe+USB2.0); 1 x M.2 2280 SSD (SATA)	1 x M.2 2280 SSD (NVMe/SATA)	
	USB	2 x USB3.0; 5 x USB2.0	2 x USB3.2; 2 x USB2.0	2 x USB3.0; 5 x USB2.0		2 x USB2.0
	COM	3 x RS232; 2 x RS232/RS485	2 x RS232; 2 x RS232/RS485	3 x RS232; 2 x RS232/RS485	3 x RS232; 1 x RS232/RS422/RS485; 1 x RS232/RS485	4 x RS232
	mSATA	1 x mSATA	/			
	SATA III	4 x SATA			3 x SATA	4 x SATA
	GPIO	8 x GPIO				
Mechanical parameters	Dimension	305mm x 244mm	304.8mm x 244mm	305mm x 220mm	305mm x 244mm	304.8mm x 220mm
Environmental parameters	Operating Temperature	0~60°C				
	Storage Temperature	-20~75°C				

HRC Series Industrial Motherboard Specification

Attribute		HE-Q670D-RC	HE-Q670DB-RC	HE-Q670S-RC	HE-W680-RC	HE-Q870D-RC
Product Image						
System Parameters	CPU	Intel® 12/13/14th Gen Core/Pentium/Celeron Processors	Intel® 12/13/14/15th Gen Core/Pentium/Celeron Processors	Intel® 12/13/14th Gen Core/Pentium/Celeron Processors	Intel® 12/13/14th Gen Core Processors	Intel® Core Ultra Processors
	Chipset	Intel® Q670			Intel® W680	Intel® Q870
Memory	Feature	2 x UDIMM DDR4; Max. 128GB	4 x UDIMM DDR5; Max. 128GB	4 x UDIMM DDR5; Max. 192GB	4 x UDIMM DDR5; Max. 128GB	4 x UDIMM DDR5; Max. 192GB
Rear I/O	Display	1 x DP, MAX 4K@60 Hz; 1 x HDMI, MAX 4K@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz		1 x DVI, MAX 1920 x 1200@60 Hz; 1 x HDMI, MAX 4096 x 2160@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz	1 x DVI, MAX 1920 x 1080@60 Hz; 1 x HDMI, MAX 3840 x 2160@60 Hz; 2 x DP, MAX 5120 x 2160@60 Hz	1 x DP, MAX 4K@60 Hz; 1 x HDMI, MAX 4K@60 Hz; 1 x VGA, MAX 1080P
	LAN	1 x Intel i219-V GbE LAN; 1 x Intel i210-V GbE LAN	1 x Intel i219-V GbE LAN; 1 x Intel i210 GbE LAN	1 x Intel i219-V GbE LAN; 1 x Intel i210-AT GbE LAN	1 x Intel i219-V GbE LAN; 1 x Intel i226-LM GbE LAN	1 x Intel i219-V GbE LAN; 1 x Intel i210 GbE LAN
	COM	2 x RS232/422/485		1 x RS-232	2 x RS232/422/485	
	USB	4 x USB3.2; 2 x USB2.0		6 x USB3.0	10 x USB3.2	4 x USB3.2; 2 x USB2.0
	Audio	Realtek ALC879; 1 x Line-Out + Line-In + MIC-In		Realtek HDA Codec; 1 x Line-Out + Line-In + MIC	Realtek HDA Codec; 1 x Line-Out + Line-In + MIC-In	Realtek ALC897; 1 x Line-Out + Line-In + MIC-In
Internal expansion	PCIe	2x PCI-E 16x Slot (PCIe 8X GEN4); 2x PCI-E 4x Slot (PCIe 4X GEN4); 1x PCI-E 4x Slot (PCIe 4X GEN3);	2x PCI-E 16x Slot (PCIe 8X GEN5); 2x PCI-E 4x Slot (PCIe 4X GEN4); 2x PCI-E 4x Slot (PCIe 2X GEN3)	2x PCI-E 16x Slot (PCIe 8X GEN4); 3x PCI-E 4x Slot (PCIe 4X GEN4)	1x PCI-E 16x Slot (PCIe 16X GEN5); 1x PCI-E 16x Slot (PCIe 4X GEN4); 1x PCI-E 4x Slot (PCIe 4X GEN4); 2x PCI-E 4x Slot (PCIe 4X GEN3)	2x PCI-E 16x Slot (PCIe 8X GEN5); 2x PCI-E 4x Slot (PCIe 4X GEN4); 2x PCI-E 4x Slot (PCIe 2X GEN4)
	Mini-PCIe	/				
	PCI	2 x PCI	1 x PCI	2 x PCI		1 x PCI
	M.2	1 x M.2 2230 (WIFI+BT, supports CNVi & PCIe 3.0 signal); 1 x M.2 2280 SSD (NVMe); 1 x M.2 2280 SSD (NVMe/SATA)		1 x M.2 2230 (WIFI+BT, PCIE+USB2.0); 1 x M.2 2280 SSD (NVMe/SATA)	1 x M.2 2280 SSD (NVMe/SATA)	1xM.22230 (WIFI+BT, supports NVi&PCIe3.0 signal); 1xM.22280 SSD (NVMe); 1xM.22280 SSD (NVMe/SATA)
	USB	2 x USB3.0; 2 x USB2.0		2 x USB3.0; 5 x USB2.0	4 x USB2.0	2 x USB3.0; 2 x USB2.0
	COM	2 x RS232; 2 x RS232/RS422/RS485		4 x RS232; 1 x RS232/RS422/RS485; 1 x RS232/RS485	4 x RS232	2 x RS232; 2 x RS232/RS422/RS485
	mSATA	/				
	SATA III	4 x SATA				
	GPIO	8 x GPIO				
Mechanical parameters	Dimension	304.8mm x 220mm	304.8mm x 244mm	305mm x 244mm		304.8mm x 244mm
Environmental parameters	Operating Temperature	0~60℃				
	Storage Temperature	-20~75℃				

HRC Series Industrial Motherboard Specification

Attribute		HE-Z390-MA-RC-X8	HE-H610-MA-RC-X81	HE-Q670-MA-RC-X8	HE-Z390-I-RC-X6	HE-H610-I-RC-X7	
Product Image							
System Parameters	CPU	Intel® 6/8/9th Gen Core/Pentium/Celeron Processors		Intel® 12/13th Gen Core/Pentium/Celeron Processors	Intel® 6/8/9th Gen Core/Pentium/Celeron Processors	Intel® 12/13/14th Gen Core/Pentium/Celeron Processors	
	Chipset	Intel® Z390		Intel® Q670	Intel® Z390	Intel® H610	
Memory	Feature	2 x UDIMM DDR4; Max. 64GB			4 x UDIMM DDR4; Max. 128GB	2 x UDIMM DDR4; Max. 32GB	2 x UDIMM DDR4; Max. 64GB
Rear I/O	Display	1 x DVI, MAX 1920 x 1200@60 Hz; 1 x HDMI, MAX 4096 x 2160@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz		1 x DP, MAX 4096 x 2160@30 Hz; 1 x DVI, MAX 1920 x 1200@60 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz		1 x HDMI, MAX 4096 x 2304@24 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz	1 x HDMI, MAX 4096 x 2160@30 Hz; 1 x VGA, MAX 1920 x 1200@60 Hz
	LAN	1 x Intel i219-V GbE LAN; 1 x Intel i210-AT GbE LAN		1 x Intel i226-V GbE LAN; 1 x Intel i210-AT GbE LAN		1 x Intel i219 GbE LAN; 4 x Intel i210 GbE LAN	2 x Realtek RTL8111H GbE
	COM	1 x RS232		/		2 x RS232	/
	USB	4 x USB3.0; 2 x USB2.0		4 x USB3.0; 4 x USB2.0	8 x USB3.0; 2 x USB2.0	6 x USB3.2	4 x USB3.0; 6 x USB2.0
	Audio	Realtek HDA Codec; 1 x Line-Out + Line-In + MIC				Realtek ALC897 HDA codec	Realtek HDA Codec; 1 x Line-Out + MIC
Internal expansion	PCIe	1x PCI-E 16x Slot (PCIe 16X GEN3); 1x PCI-E 4x Slot (PCIe 4X GEN3)		1x PCI-E 16x Slot (PCIe 16X GEN4); 2x PCI-E 4x Slot (PCIe 4X GEN3)		1x PCI-E 16x Slot (PCIe 16X GEN3)	1x PCI-E 16x Slot (PCIe 16X GEN4)
	Mini-PCIe	1 x Mini PCI-E (WIFI+BT/4G, PCIE+USB2.0)		/		1 x Mini PCI-E (SATA3.0+USB2.0)	/
	PCI	2 x PCI		1 x PCI		/	
	M.2	1 x M.2 2280 SSD (NVMe/SATA)		1 x M.2 2280 SSD (SATA)		1 x M.2 2230 (WIFI+BT, PCIE+USB2.0); 1 x M.2 2280 SSD (NVMe/SATA)	
	USB	5 x USB2.0			2 x USB3.0; 4 x USB2.0		2 x USB2.0
	COM	5 x RS232;		4 x RS232; 1 x RS232/RS422/RS485; 1 x RS232/RS485		2 x RS232; 2 x TTL	10 x RS232
	mSATA	/					
	SATA III	4 x SATA		3 x SATA	4 x SATA	2 x SATA	1 x SATA
	GPIO	8 x GPIO					
Mechanical parameters	Dimension	243mm x 243mm		244mm x 244mm		208.1mm x 180mm, δ1.6mm	170mm x 170mm
Environmental parameters	Operating Temperature	0~60℃					
	Storage Temperature	-20~75℃					

TOUCH MONITOR

Product Characteristics

HWAINTEK fanless multi-touch all-in-one industrial grade tablet computer is designed specifically for noiseless, low power consumption applications.

The sizes range from 10.1" to 21.5". All sizes are designed with a 16:9 widescreen, which is about 40% larger than the 4:3 display area. Two touch technology methods of capacitive and resistive type are provided to meet the demand of different industrial scenarios. The product is compatible with mainstream upper computer configuration software and meets most interaction scenarios.

This series of products can meet the hardware requirements of almost any interaction scenarios.

Application Scenarios

- Woodworking material cutting
- Aluminum machining
- CNC numerical control
- Laser metal machining
- Agricultural information collection and display
- Medical device interaction

Product Introduction

HP11X-AC series Touch Display

- 10 wire capacitive multi-touch, AG anti-glared surf treatment
- Support USB, serial port touch signal input, with serial port signal for
- 10.1", 12.1", 15.6", 17", 19", 21.5" display screens are optional
- IP65 protection for front panel, completely enclosed design of top railmounting
- Touch accuracy up to 1mm, high sensitivity

HP11X-AR series Touch Display

- Support USB, serial port touch signal input, with serial port signal for remote transmission
- 10.1", 12.1", 15.6", 17", 19", 21.5" display screens are optional
- IP65 protection for front panel, completely enclosed design of top rail mounting
- Resistive screen, no touch media requirements, superior usage performance
- Super anti-interference, adapt to complex electromagnetic environment



HP11X Series Product Specification

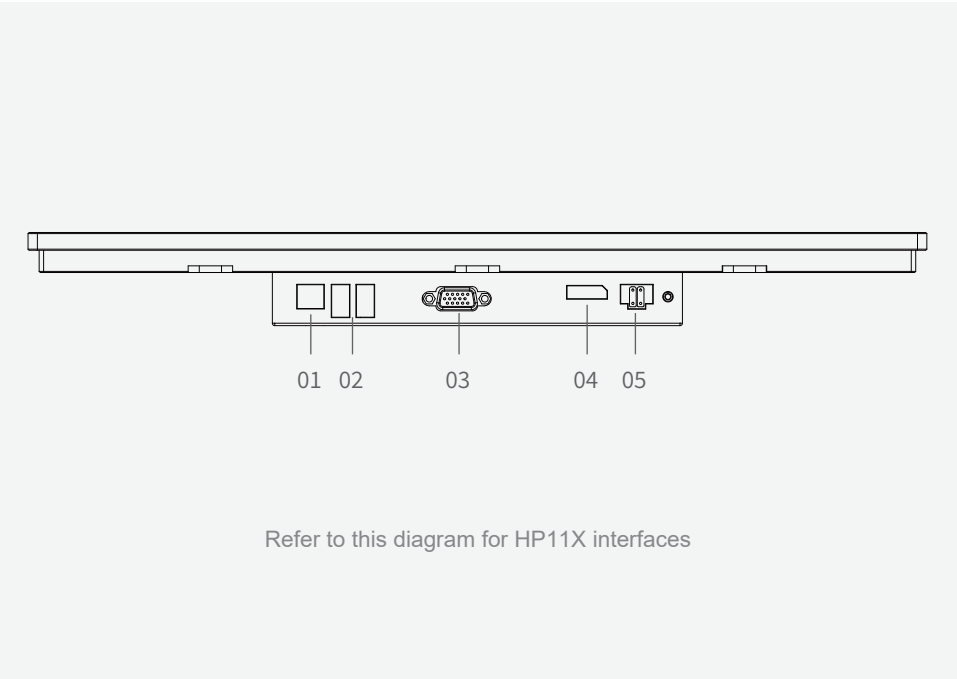
Attribute		HP11X-AC101	HP11X-AC121	HP11X-AC15
LCD	Screen type	10.1" a-Si TFT-LCD	12.1" a-Si TFT-LCD	15" a-Si TFT-LCD
	Resolution	1280 x 800		1024 x 768
	Max number of colors	16.7M		
	Brightness	430cd/m ²	400cd/m ²	350cd/m ²
	Viewing Angle	-85~85°(H), -85~85°(V)		
	Backlight type	LED		
	Backlit life	34000h	50000h	
	Touch type	10-point capacitive touch screen		
Touch screen	Transmittance	>85%		
	Surface hardness	Mohs 7H		
External I/O	Display	1 x HDMI; 1 x VGA		
	USB	1 x USB2.0		
Mechanical parameters	Dimensions	283.2 x 186.9 x 41.4mm	318.0 x 215.1 x 42.6mm	376.1 x 285.3 x 43.3mm
	Opening size	275.0 x 179.0mm	307.0 x 204.1mm	366.0 x 277.0mm
	Net weight	1.5Kg		2.96Kg
Power	Input Voltage	12V/3A		
Environmental parameters	Operating Temperature	0~50°C		
	Storage Temperature	-20~60°C		
	Relative humidity	95%@40°C (non-condensing)		
	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27		
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64		
	EMC	CE、FCC		
	Front Protection	Front Panel IP65		

Attribute		HP11X-AC156	HP11X-AC17	HP11X-AC185
LCD	Screen type	15.6寸 TFT-LCD	17寸 TFT-LCD	18.5寸 TFT-LCD
	Resolution	1920 x 1080	1280 x 1024	1920 x 1080 or 1366 x 768
	Max number of colors	16.2M	16.7M	
	Brightness	300cd/m ²	250cd/m ²	
	Viewing Angle	-85~85°(H), -85~85°(V)	-89~89°(H), -89~89°(V)	
	Backlight type	LED		
	Backlit life	30000h		
	Touch type	10-point capacitive touch screen		
Touch screen	Transmittance	>85%		
	Surface hardness	Mohs 7H		
External I/O	Display	1 x HDMI; 1 x VGA		
	USB	1 x USB2.0		
Mechanical	Dimensions	397.3 x 255.3 x 41.3mm	412.7 x 333.8 x 45.0mm	472.0 x 301.5 x 45.0mm
	Opening size	386.0 x 244.0mm	400.1 x 321.5mm	461.0 x 290.5mm
	Net weight	2.43Kg		
Power	Input Voltage	12V/3A		
Environmental parameters	Operating Temperature	0~50°C		
	Storage Temperature	-20~60°C		
	Relative humidity	95%@40°C (non-condensing)		
	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27		
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64		
	EMC	CE、FCC		
	Front Protection	Front Panel IP65		

HP11X Series Product Specification

Attribute		HP11X-AC19	HP11X-AC215	HP11X-AC238
LCD	Screen type	19寸 TFT-LCD	21.5寸 TFT-LCD	23.8寸 TFT-LCD
	Resolution	1280 x 1024	1920 x 1080	
	Max number of colors	16.7M		
	Brightness	250cd/m ²	300cd/m ²	250cd/m ²
	Viewing Angle	-89~89°(H), -89~89°(V)		
	Backlight type	LED		
	Backlit life	30000h	50000h	
	Touch type	10-point capacitive touch screen		
Touch screen	Transmittance	>85%		
	Surface hardness	Mohs 7H		
External I/O	Display	1 x HDMI; 1 x VGA		
	USB	1 x USB2.0		
Mechanical	Dimensions	440.0 x 364.0 x 45.0mm	536.2 x 329.4 x 51.0mm	581.9 x 356.9 x 49.5mm
	Opening size	428.2 x 352.2mm	520.0 x 313.0mm	567.7 x 340.6mm
	Net weight		5.8Kg	
Power	Input Voltage	12V/3A		
Environmental parameters	Operating Temperature	0~50°C		
	Storage Temperature	-20~60°C		
	Relative humidity	95%@40°C (non-condensing)		
	Crash	Operating 10 G Peak Acceleration (11 ms Duration), Follows IEC 60068-2-27		
	Vibrate	Operating Random Vibration Test 5~500Hz, 2Grms @with SSD, Follows IEC 60068-2-64		
	EMC	CE、FCC		
	Front Protection	Front Panel IP65		

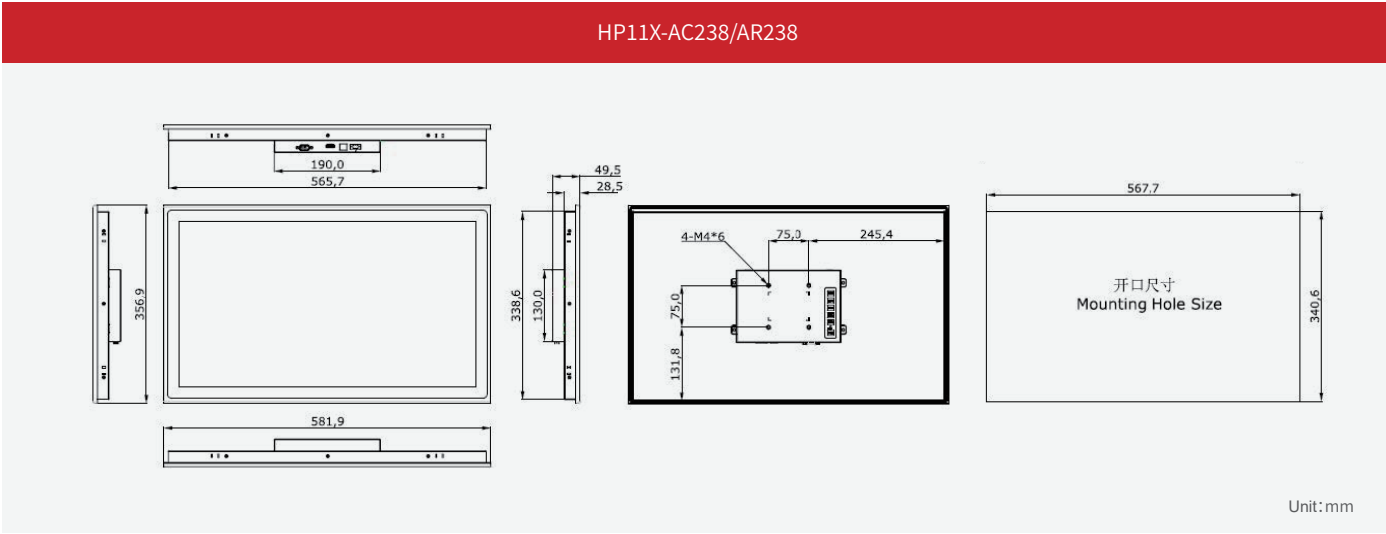
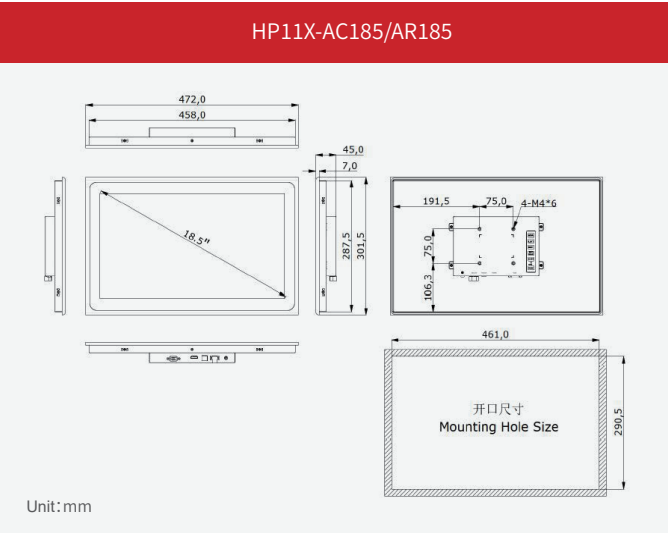
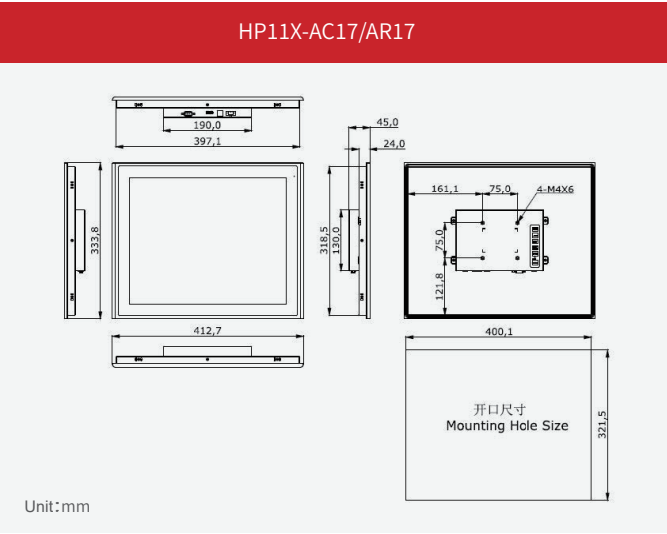
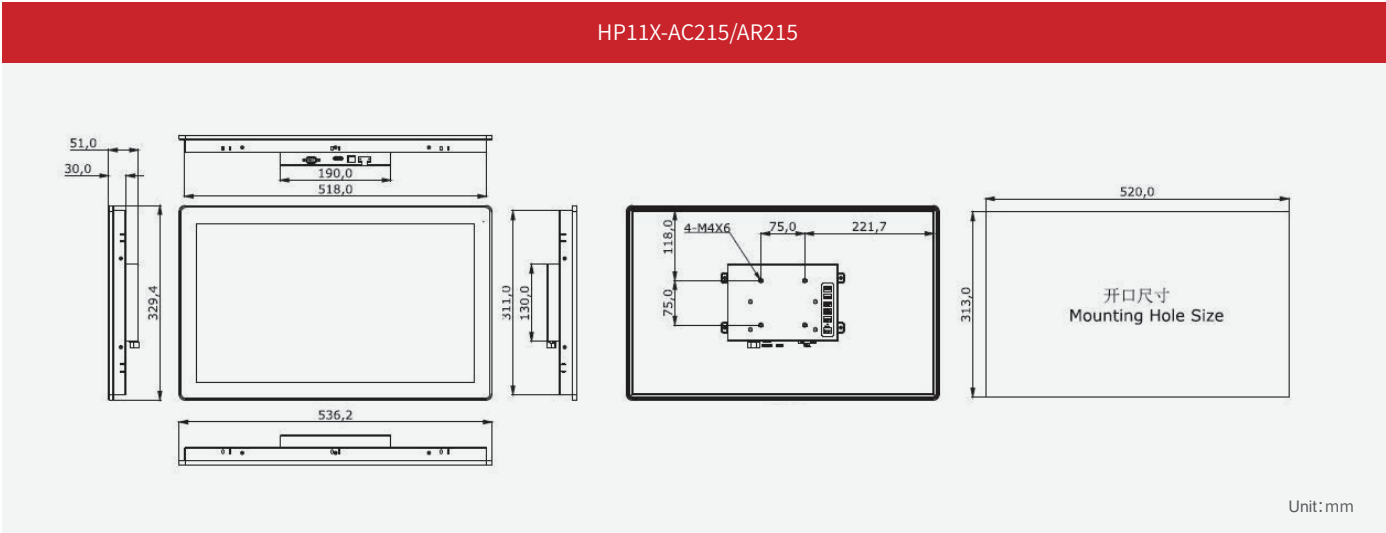
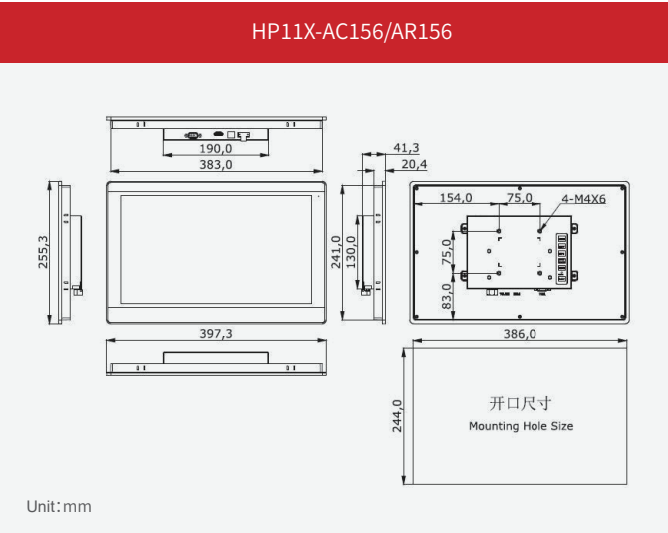
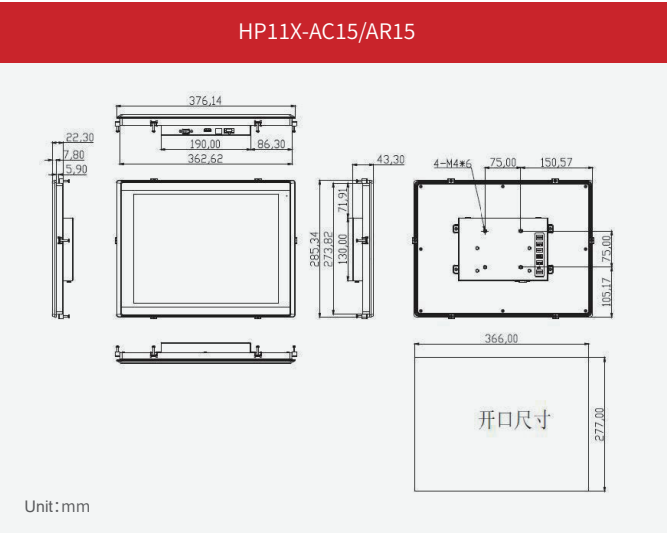
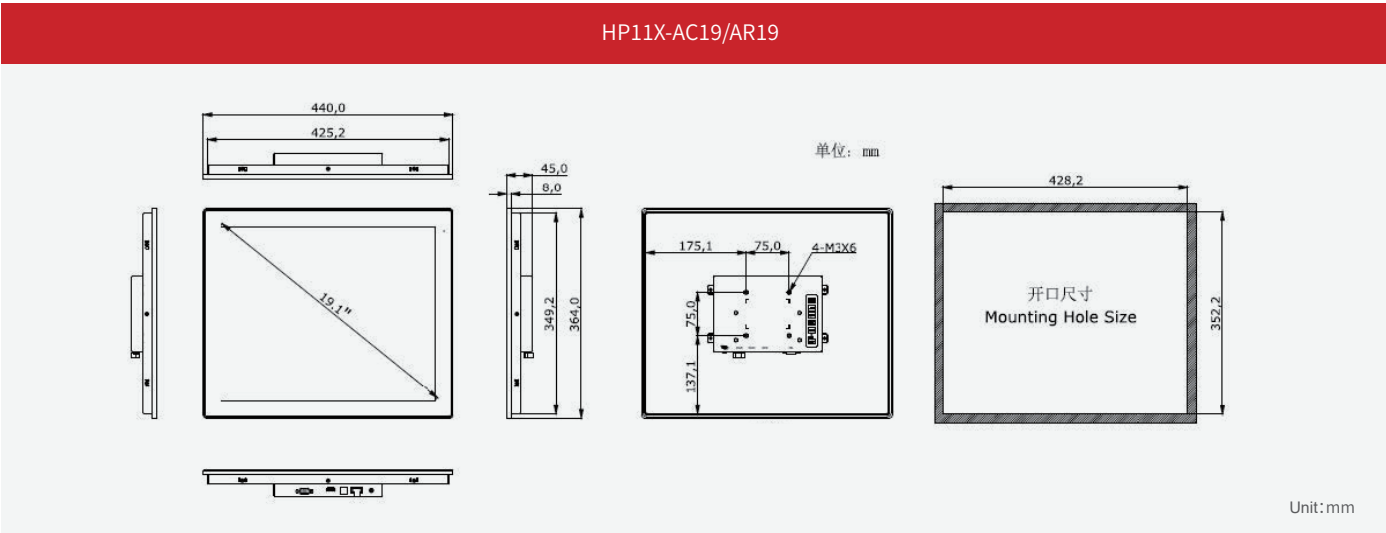
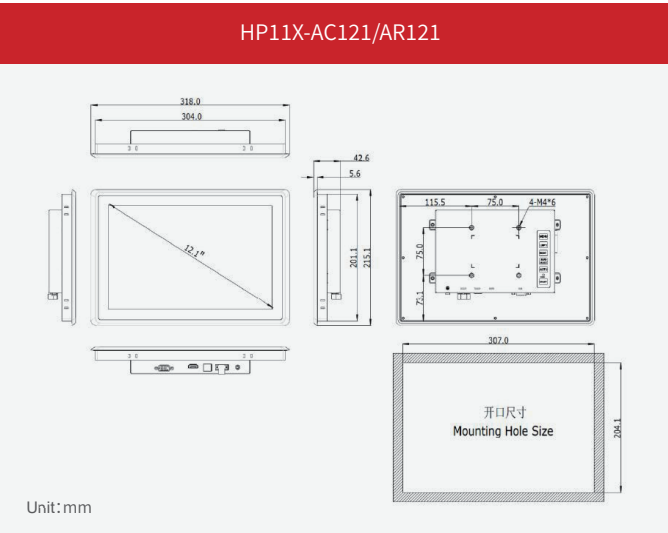
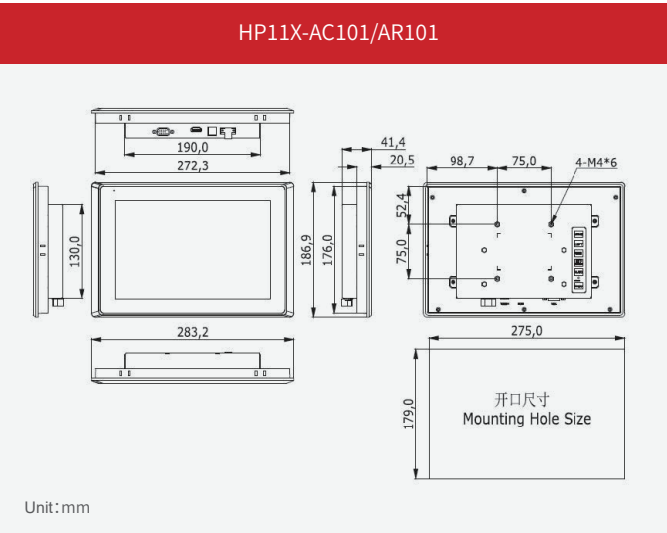
Interface Description



HP11X Series

- 01 USB2.0 (TOUCH)
- 02 2x USB2.0
- 03 VGA
- 04 DP
- 05 Power input interface(24V DC IN)

Dimension



Embedded System | Edge Computing | Industrial
Control | Rack Mount | Panel PC | Touch Monitor
Machine Vision

“ ADVANCED TECHNOLOGY
EMPOWERS INTELLIGENT INDUSTRY ”