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Industrial Computer Series

**Powerful Core, Strong Performance**

Designed for Industrial IoT Peripheral Applications

OEM/ODM

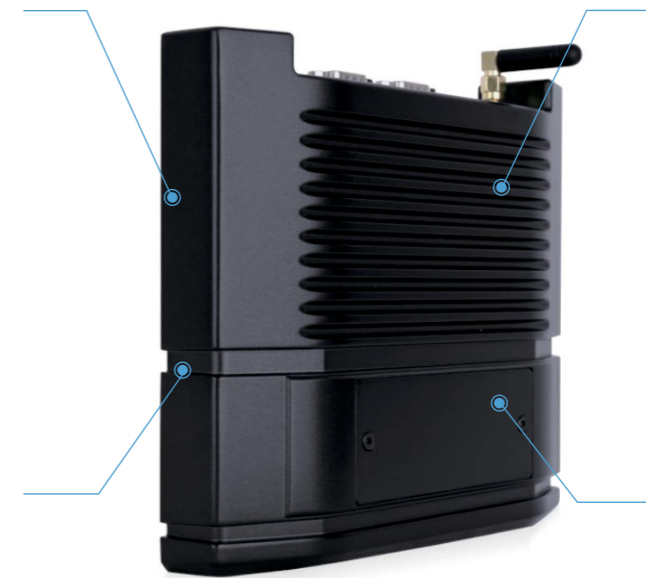
# Industrial Computer A Series

Adopting all-aluminum alloy structure and fanless fully enclosed design scheme, low power consumption of the whole machine, compact shape, specially designed for industrial products for a variety of environments, to ensure that a long period of time in harsh environments and stable work, stable performance and reliability, EMC compatibility and environmental adaptability, rich and easy to expand the interface, widely used in industrial control, military, communications, electric power, network and other automation fields.

## Product Features

### Industrial technology design

Adopting high-precision aluminum alloy die-casting molding, fully enclosed anti-interference, sturdy impact resistance, corrosion resistance, salt spray resistance



Exquisite and concise appearance design, aluminum fin passive heat dissipation and conduction device, fan-free design of the whole machine, simple internal wiring, ensuring uninterrupted and stable operation in harsh environment.

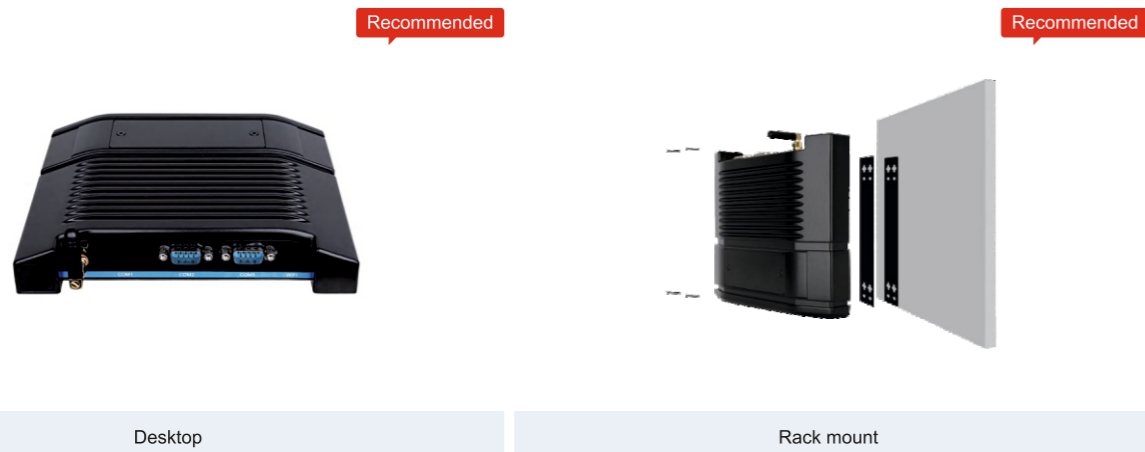
Authoritative patent certification, With independent intellectual property rights and trademarks

Integrated diversified interfaces, reserved COM port, more convenient application upgrade

- ◆ Self-developed industrial-grade motherboards
  - ARM architecture industrial motherboard
- ◆ Support multiple operating systems
  - Android
  - Ubuntu
  - Linux
  - Debian
- ◆ Multiple colors available
  - Black
  - Silver

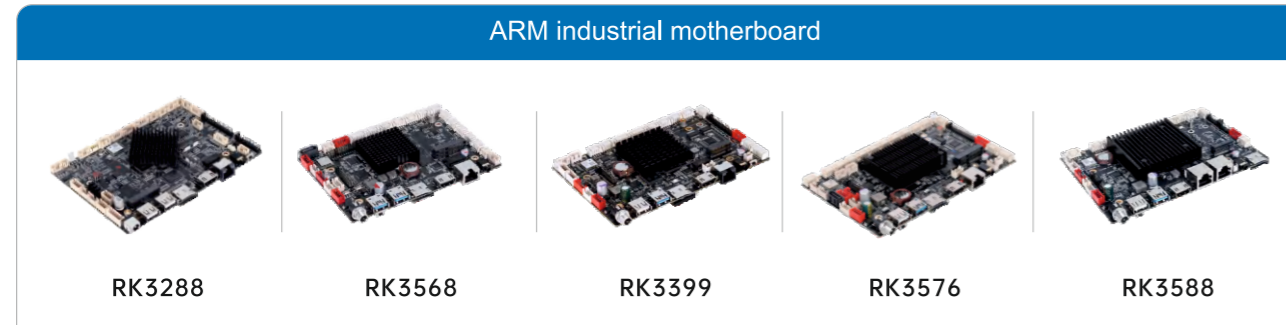


### Various installation methods are available





# Motherboard Performance


## Self-developed industrial-grade motherboards





## Whole machine performance protection


- 


**Moisture and corrosion resistant**  
The motherboard can be painted with three-proof paint, which has the properties of moisture-proof, leakage-proof, dust-proof, corrosion-proof, aging-proof and electricity-proof.
- 


**High-capacity storage**  
Maximum 32GB of operating memory and high-capacity storage, with quad-core architecture, intelligent growth rate, full-load operation without pressure
- 

**Thunder and lightning protection**  
The motherboard is equipped with conductive capacitors, which can effectively guide the lightning to the conductive capacitors to protect the machine motherboard.
- 

**Surge protection**  
High protection against surges, the voltage instantly rises, the machine and the adapter will not produce faults, stable operation.
- 

**EMI/EMC anti-interference standards**  
The motherboard adopts active ESD protection circuit design, which has anti-interference and anti-magnetic design.
- 

**Anti-static protection**  
ESD : Customizable upgrade  $\pm 8KV\sim 15KV$ , can effectively protect the normal operation of the machine, to avoid the screen turning black.
- 

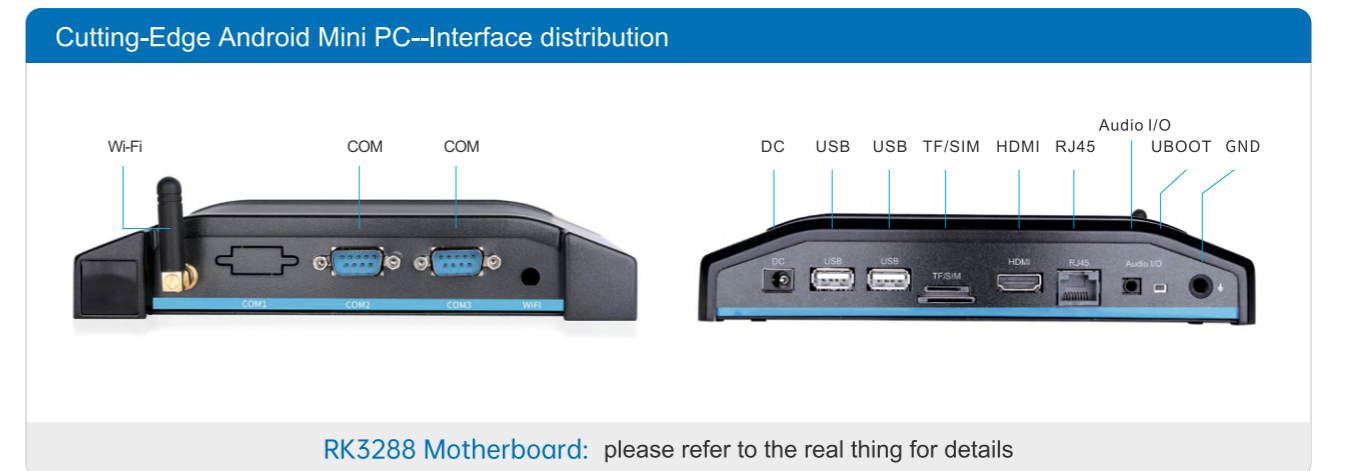
**High and low temperature resistant design**  
Adopt industrial grade wide temperature motherboard, support  $-10^{\circ}C$  to  $60^{\circ}C$  wide temperature operation can be customized ultra-wide temperature:  $-20^{\circ}C\sim 70^{\circ}C$ .
- 

**Customized Upgrades**  
Easy to expand and upgrade, support the appearance, function, screen, accessories, interface and other flexible customization services

# Product Parameters

Cutting-Edge Android Mini PC			
CPU	RK3588 Octa-core 64 bit 2.4GHz	Operating System	Android 13.0, Linux5.10/Ubuntu20.04/22.04/Debian11
	RK3568 Quad-core 64 bit 2.0GHz		Android12/14, Linux5.10/Ubuntu20.04/22.04/Debian11
	RK3399 Six Core 64 bit, 2.0GHz		Android 7.1/9.0/11/13, Linux4.4/Ubuntu18.04/Debian10
	RK3288 Cortex-A17 Quad Core 1.8GHz		Android 7.1/10.0/12, Linux/Ubuntu/Debian/Linux4.4+QT
	A64 Cortex-A53 quad-core, 1.5GHz		Android 6.0
GPU	ARM Mali G610 MP4		
Memory/RAM	2GB/4GB/8GB/16GB/32GB optional		
Storage	8GB/16GB/32GB/64GB/128GB/256GB eMMC optional		
3G/4G Modules	PCI-E standard interface, support mobile, Unicom, telecom (optional)		
Wi-Fi	Optional Wi-Fi5/Wi-Fi6, Dual Band 2.4GHz+5GHz	Power On	Support
Bluetooth	BT5.0	Remote Wakeup	Support
Decoding Resolution	HDMI Supports up to 4K 3840*2160	Automatic Reset	Support
Network Support	4G, Ethernet, wireless peripheral expansion, etc.	HD Support	1080P
Environment Parameters			
Operating Temperature	$-10^{\circ}C\sim 60^{\circ}C$ ( $-20^{\circ}C\sim 70^{\circ}C$ can be customized)		
Storage Temperature	$-20^{\circ}C\sim 70^{\circ}C$		
Humidity	95% non-condensing		
Other Parameters			
Power Input	12V / 12-36V wide-voltage power input optional	Overall Size	199.5*213.1*58.3(L*W*H)
Power adapter	12V / 4A 24V/2.5A	Operating Weight	1.9KG
Chassis Structure	Aluminium alloy for chassis face	Installation Method	Supports rack mount, desktop mount.
Body Color	Black	Warranty Policy	T three years (one year free warranty)

## Interface Distribution





# Product Features

## Industrial technology design

Adopting high-precision aluminum alloy die-casting mol-ding, fully enclosed antiinterference, sturdy impact resistance, corrosion resistance, salt spray resistance

Support power-onself-start and remote wake-up functions, and the operation is smarter and more convenient.

Authoritative patent certification,With independent intellectual property rights and trademarks



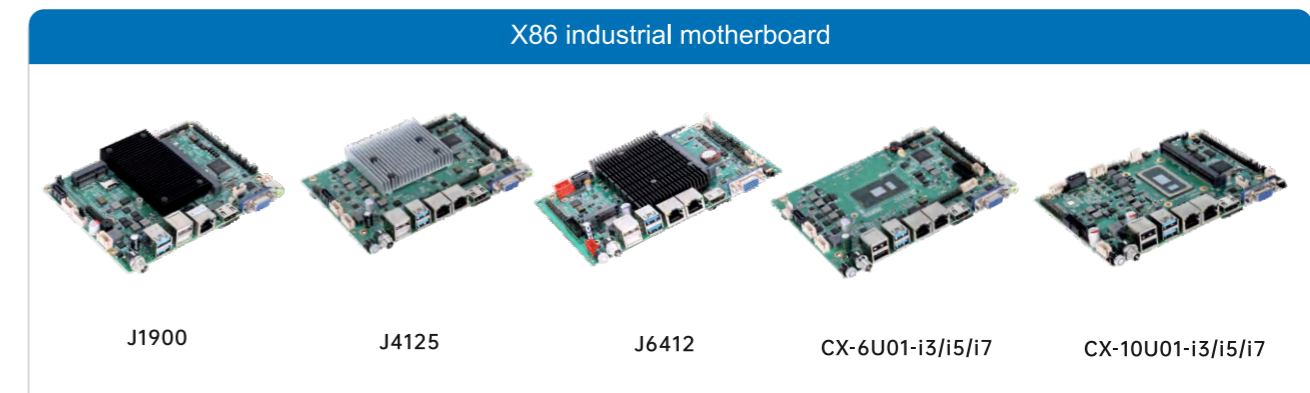
Exquisite and concise appearance design, aluminum fin passive heat dissipation and conduction device, fan-free design of the whole machine, simple internal wiring, ensuring uninterrupted and stable operation in harsh environment.

Integrated diversified interfaces, reserved COM port, more convenient application upgrade



# Motherboard Performance

## Self-developed industrial-grade motherboards



## Whole machine performance protection

- Moisture and corrosion resistant**  
 The motherboard can be painted with three-proof paint, which has the properties of moisture-proof, leakage-proof, dust-proof, corrosion-proof, aging-proof and electricity-proof.
- High Performance CPU**  
 Adopting first-tier brand chips, the highest equipped with Intel® 10th Gen Core™ I7 processor, strong performance, to meet the all-weather stability of operation
- Thunder and lightning protection**  
 The motherboard is equipped with conductive capacitors, which can effectively guide the lightning to the conductive capacitors to protect the machine motherboard.
- Surge protection**  
 High protection against surges, the voltage instantly rises, the machine and the adapter will not produce faults, stable operation.
- EMI/EMC anti-interference standards**  
 The motherboard adopts active ESD protection circuit design, which has anti-interference and anti-magnetic design.
- Anti-static protection**  
 ESD : Customizable upgrade ± 8KV~15KV, can effectively protect the normal operation of the machine, to avoid the screen turning black.
- High and low temperature resistant design**  
 Adopt industrial grade wide temperature motherboard, support -10℃ to 60℃ wide temperature operation can be customized ultra-wide temperature: -20℃~70℃.
- Customized Upgrades**  
 Easy to expand and upgrade, support the appearance, function, screen, accessories, interface and other flexible customization services

# Product Parameters

Cutting-Edge Android Mini PC			
CPU	Intel Celeron J1900 Quad Core 1.99GHz	Operating System	WIN7/10, Ubuntu/Centos/Redhat/Debian
	Intel Celeron J4125 Quad Core 2.0GHz		WIN10/11, Ubuntu/Centos/Redhat/Debian
	Intel Celeron J6412 Quad Core 2.0GHz		WIN10/11, Ubuntu/Centos/Redhat/Debian
	Intel I3/I5/I7		Win7/10/11, Ubuntu/Centos/Redhat/Debian/Linux
GPU	Intel HD Graphics		
Memory/RAM	4GB/8GB/16GB/32GB/64GB optional		
Storage	64GB/128GB/256GB/512GB/1T~4T SSD, 1T/2T HDD optional		
Resolution Support	Above 800 * 600		
Wi-Fi	Dual Band 2.4GHz+5GHz	Power On	Support
Bluetooth	BT4.0	Remote Wakeup	Support
Decoding Resolution	HDMI Supports up to 4K 3840*2160	Automatic Reset	Support
Network Support	4G, Ethernet, wireless peripheral expansion, etc.	HD Support	1080P
Environment Parameters			
Operating Temperature	-10°C~60°C( -20°C~70°C can be customized)		
Storage Temperature	-20 °C ~70 °C		
Relative humidity	95% non-condensing		
Other Parameters			
Power Input	12V / 12-36V wide-voltage power input optional	Overall Size	199.5*213.1*58.3(L*W*H)
Power adapter	24V/2.5A	Operating Weight	1.9KG
Body Color	Black	Installation Method	Supports rack mount, desktop mount.
Chassis Structure	The aluminum alloy on the case surface has good seismic resistance and impact resistance		

# Interface Distribution

**Classic X86 Mini PC--Interface distribution**

**J1900 Motherboard:** please refer to the real thing for details

# Interface Distribution

**Classic X86 Mini PC--Interface distribution**

**J4125 Motherboard:** please refer to the real thing for details

**J6412 Motherboard:** please refer to the real thing for details

**I series Motherboard:** please refer to the real thing for details

# Industrial Computer C Series

All-aluminum alloy fuselage structure, multiple industrial protection, calmly deal with all kinds of harsh environment. A variety of configuration motherboard schemes can be selected to meet different application needs, with strong open source properties, and support higher-level expansion and upgrade of applications. It perfectly adapts to the application requirements of intelligent automation fields such as industrial control, military industry, communication, electric power and network.

◆ Self-developed industrial-grade motherboards

- ✔ ARM architecture industrial motherboard
- ✔ X86 architecture industrial motherboard

◆ Support multiple operating systems

- ✔ Windows
- ✔ Ubuntu
- ✔ Android
- ✔ Debian
- ✔ Linux
- ✔ Centos
- ✔ Redhat

◆ Multiple colors available

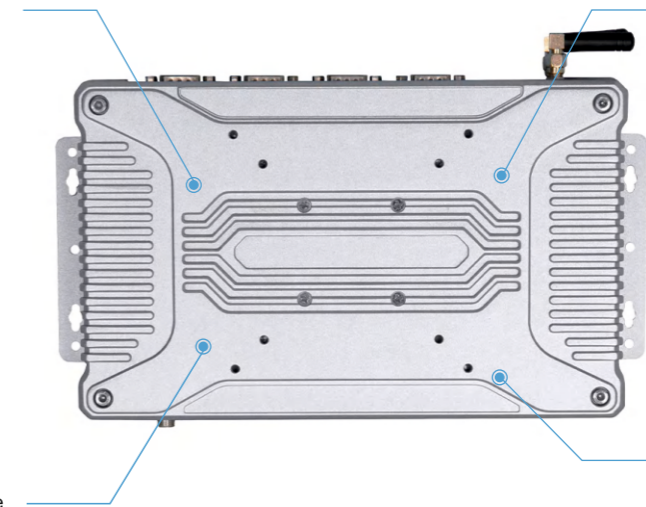
- ✔ Silver
- ✔ Black



## Product Features

### Industrial technology design

Adopting high-precision aluminum alloy diecasting molding, fully enclosed antiinterference, sturdy impact resistance, corrosion resistance, salt spray resistance



Exquisite and concise appearance design, aluminum fin passive heat dissipation and conduction device, fan-free design of the whole machine, simple internal wiring, ensuring uninterrupted and stable operation in harsh environment.

Authoritative patent certification, With independent intellectual property rights and trademarks

Built-in multi-PCI-E, PCI interface, can be connected to video capture cards, visual motion cards, graphics cards and other PCI/PCI-E interface expansion cards

### Various installation methods are available



Desktop

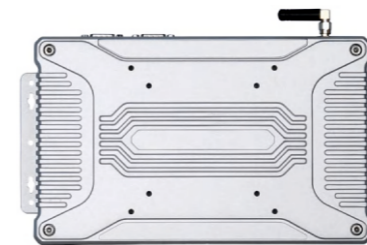
Recommended



Rack mount

Recommended

#### High and Strong performance X86 Mini PC

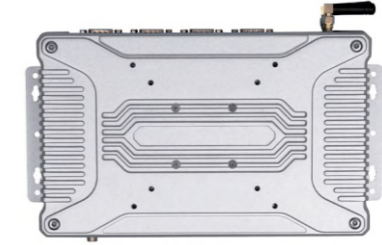


Front



Back

#### High and Strong performance Android Mini PC



Front



Back

# Motherboard Performance

## Self-developed industrial-grade motherboards

ARM industrial motherboard

RK3288

RK3568

RK3399

RK3576

RK3588

X86 industrial motherboard

J1900

J4125

J6412

CX-6U01-i3/i5/i7

CX-10U01-i3/i5/i7

## Whole machine performance protection

**Moisture and corrosion resistant**

The motherboard can be painted with three-proof paint, which has the properties of moisture-proof, leakage-proof, dust-proof, corrosion-proof, aging-proof and electricity-proof.

**High Performance CPU**

Adopting first-tier brand chips, the highest equipped with Intel® 10th Gen Core TM I7 processor, strong performance, to meet the all-weather stability of operation

**EMI/EMC anti-interference standards**

The motherboard adopts active ESD protection circuit design, which has anti-interference and anti-magnetic design.

**Anti-static protection**

ESD : Customizable upgrade ± 8KV~15KV, can effectively protect the normal operation of the machine, to avoid the screen turning black.

**High and low temperature resistant design**

Adopt industrial grade wide temperature motherboard, support -10℃ to 60℃ wide temperature operation can be customized ultra-wide temperature: -20℃~70℃.

**Customized Upgrades**

Easy to expand and upgrade, support the appearance, function, screen, accessories, interface and other flexible customization services

# Product Parameters

## Hardware parameters

### High and Strong performance X86 Mini PC >>

CPU	RK3588 Octa-core 64 bit 2.4GHz	Operating System	Android 12.0, Ubuntu/Debian/Linux
	RK3568 Quad-core 64 bit 2.0GHz		Android 12.0, Ubuntu/Debian/Linux
	RK3399 Six Core 64 bit, 1.8GHz		Android 7.1/9.0/11, Ubuntu/Debian/Linux
	RK3288 Cortex-A17 Quad Core 1.8GHz		Android 7.1/10.0/12, Ubuntu/Debian/Linux
	A64 Cortex-A53 quad-core, 1.5GHz		Android 6.0
GPU	ARM Mali G610 MP4		
NPU	6TOPS AI computing power		
Memory/RAM	8GB/2GB/4GB/16GB/32GB optional		
Storage	16GB/32GB/64GB/128GB/256GB eMMC optional		
4G/5G	4G module interface for Mini-Pcie, M.2 5G module interface		
Wi-Fi	Optional Wi-Fi5/Wi-Fi6, Dual Band 2.4GHz+5GHz		
Bluetooth	Bluetooth5.0		
HD Support	1080P		

### High and Strong performance Android Mini PC >>

CPU	Intel Celeron J4125 Quad Core 2.0GHz	Operating System	WIN10/11, Ubuntu/Centos/Redhat/Debian
	Intel Celeron J6412 Quad Core 2.0GHz		WIN10/11, Ubuntu/Centos/Redhat/Debian
	Intel I3/I5/I7		Win7/10/11, Ubuntu/Centos/Redhat/Debian/Linux
	Intel Celeron J1900 Quad Core 2.0GHz		WIN7/10, Ubuntu/Centos/Redhat/Debian
GPU	Intel HD Graphics	Decoding Resolution	HDMI Supports up to 4K 3840*2160
Memory/RAM	4GB/8GB/16GB/32GB/64GB optional	Network Support	4G, Ethernet, wireless peripheral expansion
Storage	64GB/128GB/256GB/512GB/1T~4T SSD, 1T/2T HDD optional	Power On	Support
Wi-Fi	Dual Band 2.4GHz+5GHz	Remote Wakeup	Support
Bluetooth	Bluetooth4.0	Automatic Reset	Support
3G/4G Modules	PCI-E standard interface, support mobile, Unicom, telecom (optional)		

## Common Parameter

### Reliability Parameters

Operating Temperature	-10℃~60℃( -20℃~70℃ can be customized)
Storage Temperature	-20℃ ~70℃
Relative humidity	95% non-condensing

### Other Parameters

Power Input	12V / 12-36V wide-voltage power input optional	Overall Size	199.5*213.1*58.3(L*W*H)
Power adapter	12V/4A , 24V/2.5A	Operating Weight	1.9KG
Fuselage Material	All aluminum alloy	Installation Method	Supports rack mount, desktop mount.
Body Color	Silver, optional black	Warranty Policy	Three years (one year free warranty)

# Interface Distribution

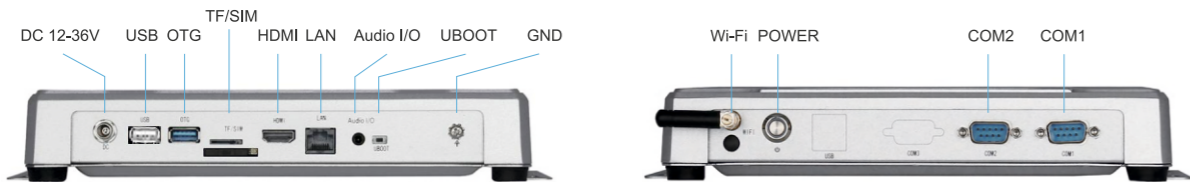
## High and Strong performance Android Mini PC--Interface distribution



**RK3288 Motherboard:** please refer to the real thing for details



**RK3568 Motherboard:** please refer to the real thing for details



**RK3399 Motherboard:** please refer to the real thing for details



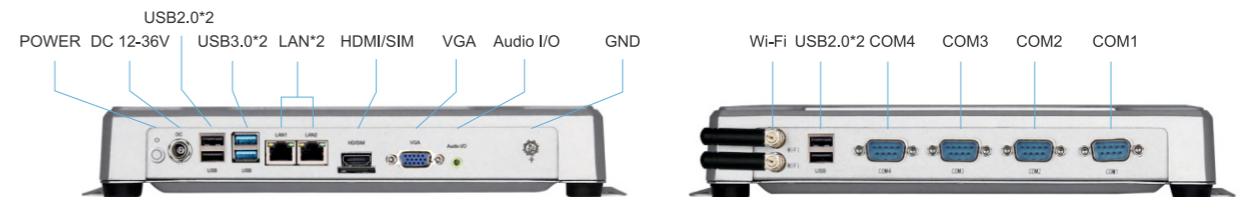
**RK3576 Motherboard:** please refer to the real thing for details



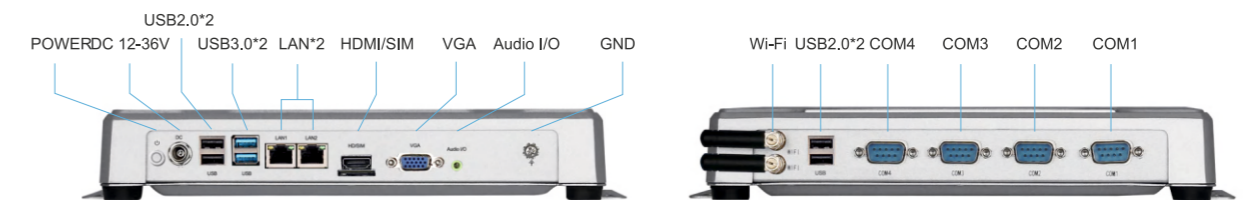
**RK3588 Motherboard:** please refer to the real thing for details

# Interface Distribution

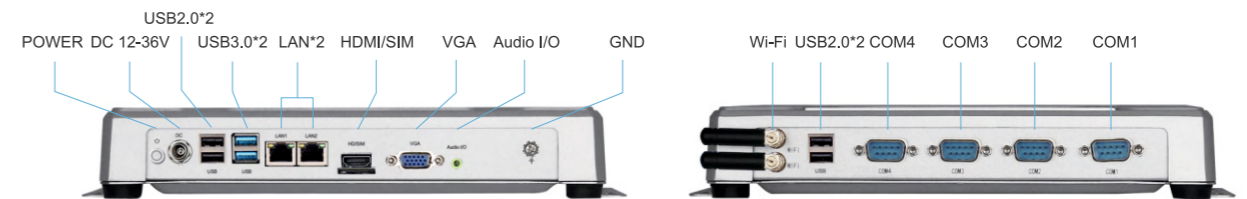
## High and Strong performance X86 Mini PC--Interface distribution



**J4125 Motherboard:** please refer to the real thing for details



**I series Motherboard:** please refer to the real thing for details



**J6412 Motherboard:** please refer to the real thing for details



**J1900 Motherboard:** please refer to the real thing for details

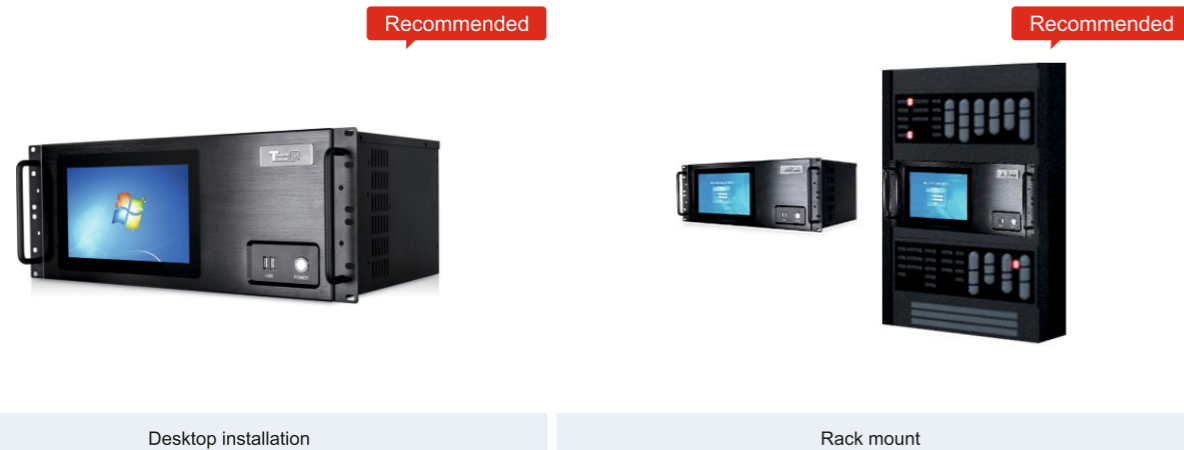
# 4U Industrial PC with Display

Front 9 inch LCD display, configuration using intel Core i5-6500 independent CPU, quad-core four-threaded, main frequency 3.2GHz, RWI maximum support 3.6GHz, the maximum support for 32G memory, with HDMI / DVI / VGA and other video output interfaces, support for dual Gigabit network interfaces, interface rich. Through the PCI/PCIE interface, external video capture card, vision motion control card, light source brightness control card, etc., widely used in vehicle and road collaboration, AI edge computing server, machine vision, robotics, high-definition video processing, intelligent inspection, environmental monitoring and control, behavioral analysis, industrial automation control, production line workstations, power plant room, monitoring and supervision, industrial vision and other scenarios.

- ◆ Self-developed industrial-grade motherboards
  - ✔ X86 architecture industrial motherboard
- ◆ Support multiple operating systems
  - ✔ Windows
  - ✔ Linux
- ◆ Multiple colors available
  - ✔ Black
  - ✔ Grey



## Various installation methods are available



## Product Features

### Industrial technology design

The fuselage is made of high-precision aluminum alloy and SGCC galvanized and thickened steel is precision casting Formed, solid structure, wear resistance and impact resistance hit



The front panel adopts wire drawing technology, with 9 inch industrial LCD screen and capacitive ten-point touch screen, which is simple and atmospheric, showing industrial aesthetic texture.

Support power-on self-start and remote wake-up functions, and the operation is smarter and more convenient.

Switch key and USB port in the front of panel, humanized design, more convenient to use

### Multi-fan heat dissipation design

The whole machine is designed with fan cooling, and the independent CPU cooling fan selects the multiple cooling methods of copper pipes, heat sinks and fans for strong and efficient heat dissipation.



Built-in multi-PCI-E, PCI interface, can be connected to video capture cards, visual motion cards, graphics cards and other PCI/PCI-E interface expansion cards

Authoritative patent certification, With independent intellectual property rights and trademarks

Support USB3.0, onboard VGA/HDMI/LAN/AUDIO/AC/COM rich interfaces, which is convenient for application expansion.

## Motherboard Performance

**Moisture and corrosion resistant**  
The motherboard can be painted with three-proof paint, which has the properties of moisture-proof, leakage-proof, dust-proof, corrosion-proof, aging-proof and electricity-proof.

**High Performance CPU**  
The whole machine is designed with fan cooling and the independent CPU cooling fan selects the multiple cooling methods of copper pipes heat sinks and fans for strong and efficient heat dissipation.

**Thunder and lightning protection**  
The motherboard is equipped with conductive capacitors, which can effectively guide the lightning to the conductive capacitors to protect the machine motherboard.

**Surge protection**  
High protection against surges, the voltage instantly rises, the machine and the adapter will not produce faults, stable operation.

**EMI/EMC anti-interference standards**  
The motherboard adopts active ESD protection circuit design, which has anti-interference and anti-magnetic design.

**Anti-static protection**  
ESD : Customizable upgrade  $\pm 8KV\sim 15KV$ , can effectively protect the normal operation of the machine, to avoid the screen turning black.

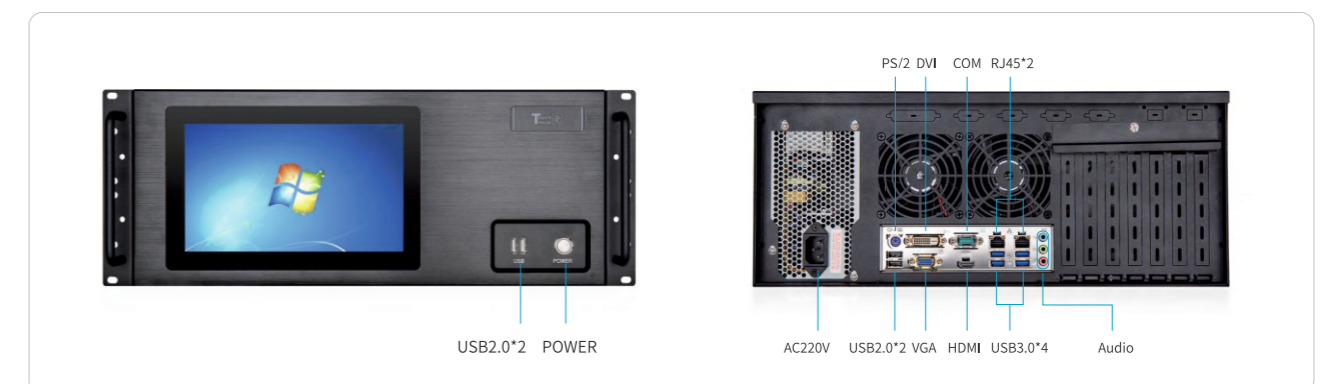
**High and low temperature resistant design**  
Adopt industrial grade wide temperature motherboard, support  $-10\text{ C}$  to  $60\text{ C}$  wide temperature operation can be customized ultra-wide temperature:  $-20\text{ C}\sim 70\text{ C}$ .

**Customized Upgrades**  
Easy to expand and upgrade, support the appearance, function, screen, accessories, interface and other flexible customization services

## Product Parameters

4U Industrial PC with Display			
CPU	Intel Core I5-6500 independentCPUquad-core 3.2GHz	Operating System	Windows 7/8/10, Server 2008/2012, Linux
	Optional: Intel Pentium/Celeron/6-7 generation Core i3/i5/i7 CPU		Windows 7/8/10, Server 2008/2012, Linux
Chipsets	Intel® H110.TDP 6W &Intel H310TDP 6W		
Hard Disk	Standard: 1T mechanical hard drive with 4*SATA3.0 +1*mSATA support[3]		
Memory/RAM	8GB(Optional:16GB/32GB)		
Display	9-inch 1024*600 industrial controlLCD, ten-point capacitive touch		
	1*VGA DB15 port +1*DVI port +1*HDMI port		
Audio	Realtek ALC662 5.1 Channel HD Audio Codec , Support 1* MIC + 1 * Line-out + 1 * Line-in		
Ethernet	1 * Intel I211AT + 1 * Intel I219-LM for 1000Mbps		
Serial port	Default RS232*1,reserved COM*4:Support: 4* RS232 + 2 RS232/RS485[4]		
USB	8*USB, Default USB2.0*4, USB3.0*4		
PS/2	1* PS/2 (mouse and keyboard 2-in-1)		
Expansion slots	9 * USB: [4*USB3.0 (Rear I/O) + 2*USB2.0(Rear I/O)+ 3* USB2.0(Header)]	1 * SMB Header	4 * PCI Slot
	8 * GPIO	1 * Front Panel Header	1 * PS/2 Connector (keyboard or mouse)
	1 * LPT Header	1 * PCIE 16X Slot	2 * Mini PCI-E
		1 * PCIE 4X Slot	1 * SIM Card Slot
		1 * PCIE 1X Slot	3 * CPU Fan Header
Operating temperature	-10°C~60°C( -20°C~70°C can be customized)	Overall Size	430*299*176mm(L*W*H)
Storage Temperature	-20 °C ~70 °C	Operating Weight	7.5KG
Relative humidity	95% non-condensing	Installation Method	Supports rack mount, desktop mount.
Power Input	220V		
Power adapter	24V/2.5A		
Warranty Policy	Three years (one year free warranty)		
Chassis Material	SGCC galvanized platesurface technology: oil spray, body color: black		

## Interface Distribution



# 4U Industrial PC

Configuration using intel Core i5-6500 independent CPU, quad-core four-threaded, main frequency 3.2GHz, RWI maximum support 3.6GHz, the maximum support for 32G memory, with HDMI / DVI / VGA and other video output interfaces, support for dual Gigabit network interfaces, interface rich. Through the PCI/PCIE interface, external video capture card, vision motion control card, light source brightness control card, etc., widely used in vehicle and road collaboration, AI edge computing server, machine vision, robotics, high-definition video processing, intelligent inspection, environmental monitoring and control, behavioral analysis, industrial automation control, production line workstations, power plant room, monitoring and supervision, industrial vision and other scenarios.

- ◆ Self-developed industrial-grade motherboards
  - ✔ X86 architecture industrial motherboard
- ◆ Support multiple operating systems
  - ✔ Windows
  - ✔ Linux
- ◆ Multiple colors available
  - ✔ Grey
  - ✔ Black



## Various installation methods are available



## Product Features

### Industrial technology design

The whole machine is designed with fan cooling, and the independent CPU cooling fan selects the multiple cooling methods of copper pipes, heat sinks and fans for strong and efficient heat dissipation.



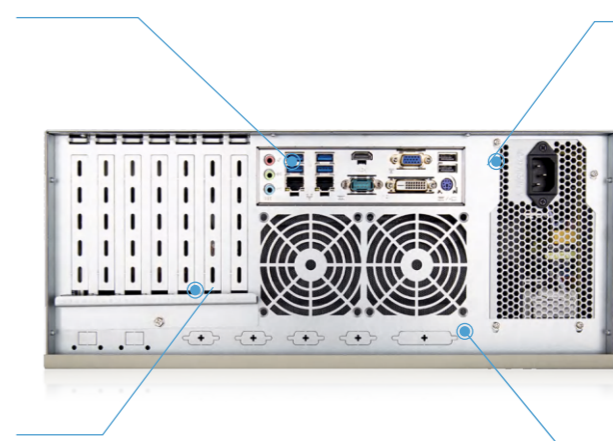
High performance discrete CPU, support intel 6/7/8/9th Core/Pentium/Celeron Processor, Supports Windows 7/8/10, Server 2008/2012, Linux and other operating systems, easy to handle a variety of software

Support power-on selfstart and remote wake-up functions, and the operation is smarter and more convenient.

Switch key and USB port in the front of panel, humanized design, more convenient to use

### Multi-fan heat dissipation design

Support USB3.0, onboard VGA/HDMI/LAN/AUDIO/AC/COM rich interfaces, which is convenient for application expansion.



Built-in multi-PCI-E, PCI interface, can be connected to video capture cards, visual motion cards, graphics cards and other PCI/PCI-E interface expansion cards

The whole machine is designed with fan cooling, and the independent CPU cooling fan selects the multiple cooling methods of copper pipes, heat sinks and fans for strong and efficient heat dissipation.

Authoritative patent certification, With independent intellectual property rights and trademarks

## Motherboard Performance

**Moisture and corrosion resistant**  
The motherboard can be painted with three-proof paint, which has the properties of moisture-proof, leakage-proof, dust-proof, corrosion-proof, aging-proof and electricity-proof.

**High Performance CPU**  
The whole machine is designed with fan cooling and the independent CPU cooling fan selects the multiple cooling methods of copper pipes heat sinks and fans for strong and efficient heat dissipation.

**Thunder and lightning protection**  
The motherboard is equipped with conductive capacitors, which can effectively guide the lightning to the conductive capacitors to protect the machine motherboard.

**Surge protection**  
High protection against surges, the voltage instantly rises, the machine and the adapter will not produce faults, stable operation.

**EMI/EMC anti-interference standards**  
The motherboard adopts active ESD protection circuit design, which has anti-interference and anti-magnetic design.

**Anti-static protection**  
ESD : Customizable upgrade  $\pm 8KV\sim 15KV$ , can effectively protect the normal operation of the machine, to avoid the screen turning black.

**High and low temperature resistant design**  
Adopt industrial grade wide temperature motherboard, support  $-10\text{ }^{\circ}\text{C}$  to  $60\text{ }^{\circ}\text{C}$  wide temperature operation can be customized ultra-wide temperature:  $-20\text{ }^{\circ}\text{C}\sim 70\text{ }^{\circ}\text{C}$ .

**Customized Upgrades**  
Easy to expand and upgrade, support the appearance, function, screen, accessories, interface and other flexible customization services

## Product Parameters

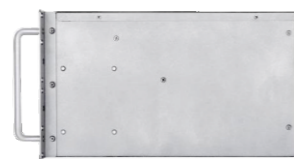
### 4U Industrial PC

CPU	Intel Core I5-6500 independentCPUquad-core 3.2GHz	Operating System	Windows 7/8/10, Server 2008/2012, Linux
	Optional: Intel Pentium/Celeron/6-7 generation Core i3/i5/i7 CPU		Windows 7/8/10, Server 2008/2012, Linux
Chipsets	Intel® H110.TDP 6W &Intel® H310TDP 6W		
Hard Disk	Standard: 1T mechanical hard drive with 4*SATA3.0 +1*mSATA support[3]		
Memory/RAM	8GB DDR4 (Optional:16GB/32GB)	Cooling System	Intelligent fan cooling
Display	1*VGA DB15 port +1*DVI port +1*HDMI port	Automatic Reset	Support
BIOS	AMI UEFI BIOS	Power Supply	ATX
Audio	Realtek ALC662 5.1 Channel HD Audio Codec , Support 1* MIC + 1 * Line-out + 1 * Line-in		
Ethernet	1 * Intel I211AT + 1 * Intel I219-LM for 1000Mbps		
Serial port	Default RS232*1,reserved COM*4:Support: 4* RS232 + 2 RS232/RS485[4]		
USB	8*USB, Default USB2.0*4, USB3.0*4		
PS/2	1* PS/2 (mouse and keyboard 2-in-1)		
Expansion Slots	9 * USB: [4*USB3.0 (Rear I/O) + 2*USB2.0(Rear I/O)+ 3* USB2.0(Header)]	1 * SMB Header	4 * PCI Slot
	8 * GPIO	1 * Front Panel Header	1 * PS/2 Connector (keyboard or mouse)
	1 * LPT Header	1 * PCIE 16X Slot	2 * Mini PCI-E
		1 * PCIE 4X Slot	1 * SIM Card Slot
		1 * PCIE 1X Slot	3 * CPU Fan Header
Operating Temperature	$-10\text{ }^{\circ}\text{C}\sim 60\text{ }^{\circ}\text{C}$ ( $-20\text{ }^{\circ}\text{C}\sim 70\text{ }^{\circ}\text{C}$ can be customized)	Overall Size	430*299*176mm(L*W*H)
Storage Temperature	$-20\text{ }^{\circ}\text{C}\sim 70\text{ }^{\circ}\text{C}$	Operating Weight	7.5KG
Humidity	95% non-condensing	Installation Method	Supports rack mount, desktop mount.
Power Input	220V		
Power adapter	24V/2.5A		
Warranty Policy	Three years (one year free warranty)		
Chassis Material	SGCC galvanized platesurface technology: oil spray, body color: grey color		

### 4U Industrial PC



Front

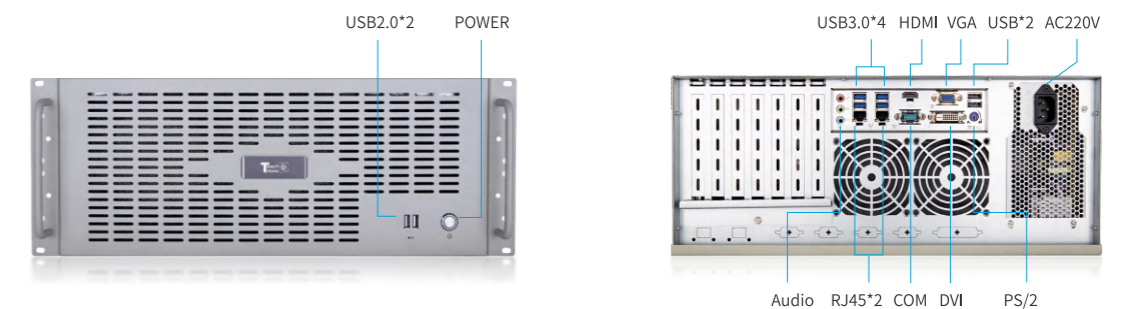


Side



Back

## Interface Distribution



# Z-Series IPC-A

Z series industrial computer model A is a high-performance, expandable industrial computer, including three versions: the standard version, the dual-slot version, and the four-slot version. They are designed for the peripheral applications of the IoT. Featuring the Intel® H610 chipset, and coming with an Intel® 12th generation Alder lake-S series processor, dual-channel DDR5, and rich I/O ports. With a 9V-36V wide voltage input, excellent heat dissipation structure, and robust mechanical design, it ensures high reliability and stability in harsh environments. The modular I/Os design is easy to upgrade and expand, ideal for multiple fields like industrial automation, machine vision, power communication, rail transit, and smart healthcare, providing remarkable computing capability and flexible expansion performance.

## High-Performance Discrete CPU

- Supports Intel® 12th/13th/14th Generation Core™ i3/i5/i7/i9 processor.

## Rich I/O Ports

- 2\*RJ45, 3\*USB 3.0, 3\*USB 2.0, 4\*COM, 16bit bifurcated GPIO.

## Modular Structural Design

- I/O ports and internal structure present a modular design, non-redundant and beautiful. Easy for expansion and upgrading.

## Powerful Scalability

- Supports dual PCIe + dual PCI slots, compatible with graphics cards, data acquisition cards, motion control cards, and other types of expansion cards.

## Three Versions Available



Standard Version

Dual-Slot Version

Quad-Slot Version

# Product Features



## Support Wide Temperature and Wide Voltage

Wide temperature: -20°C ~ 70°C,  
Wide voltage: 9 ~ 36V.



## High-Speed Memory Channel

2 \* DDR54800 MHz SODIM M, with a max. of 64GB.



## Ultra high-Speed Real-Time Function

2.5G and gigabit dual network port design, supporting M.2 expanded 4G/5G, WiFi/Bluetooth module.



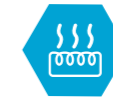
## Enhanced Display Performance

1\*DP+1\*HDMI+1\*VGA, Support ultra-high definition 8K + 4K three-screen simultaneous display / heterodyne display.



## Industrial Grade Reliability

With protections of over-voltage, over-current, anti-short circuit, anti-vibration and EMI/ESD. Boasting stable and reliable performance.



## Highly Efficient Heat Dissipation

The heat dissipation system was upgraded with a copper tube design, aluminum fins for the top of the cover, and a fanless cooling design, which offers excellent heat dissipation performance.



## Pull-out Hard Disk Design

Equipped with two 2.5" SATA3.0 mechanical hard drives and one full-length mSATA hard drive expansion for easy storage expansion, maintenance and upgrades.



## Customization Upgrade

It is easy to expand and upgrade and supports multiple flexible custom services such as appearance, function, I/Os, and performance configuration.

## Application



Industrial Automation



Machine Vision



Power Communication



Rail Transit

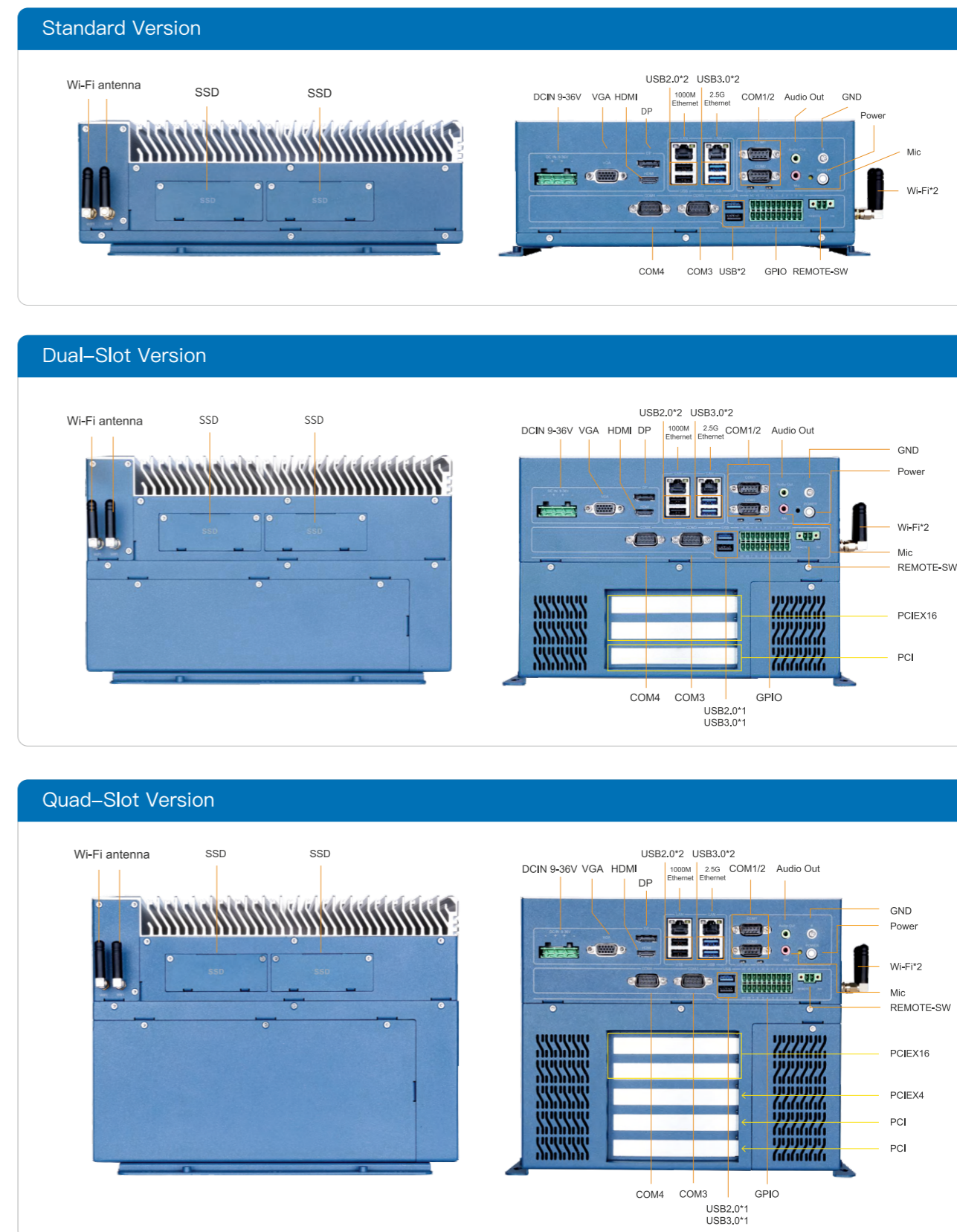


Smart Healthcare

# Product Parameter

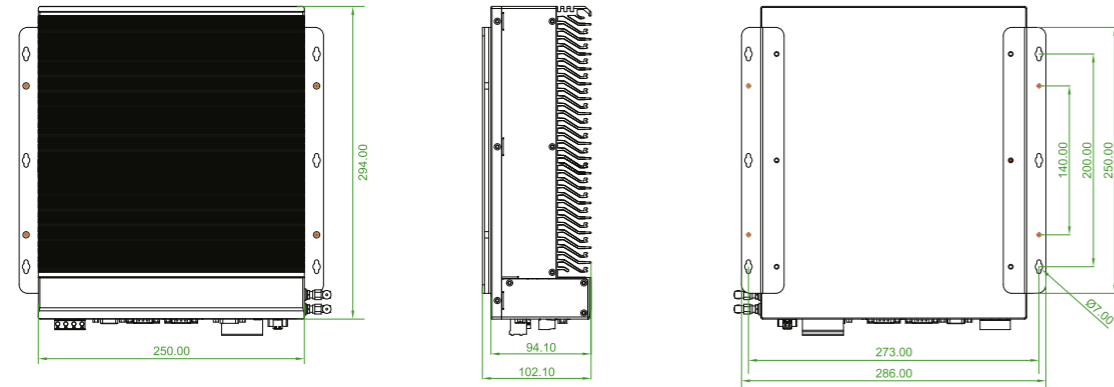
Product Type	Standard Version	Dual-Slot Version	Quad-Slot Version
Extended Interface	/	1*PCIEX16, 1*32BIT PCI	1*PCIEX16, 1*PCIEX4, 2*32BIT PCI
Overall Size	250mm*294mm*102mm	250mm*294mm*182.05mm	250mm*294mm*222.05mm
Bare Weight	6.34KG	/	8.19KG
Configuration			
CPU	Intel® Alder lake-S 12th Gen Core i9/i7/i5/i3/Pentium/Celeron LGA1700 CPU CPU Model: I3-12100, I5-12400, I7-12700, I9-12900 (Upgradeable to 13th/14th generation discrete CPU)		
Chipsets	Intel® H610 PCH		
Memory (RAM)	Standard 16GB Support 2*262-Pin SODIMM, dual-channel DDR5 4800MHz, max 64GB		
Hard Disk Storage	Standard 500GB SSD 2*2.5" SATA3 easy-plug HDD cages, high-capacity 15mm thickness HDD, supports up to 6Gbps transfer speeds 1*Full-length mSATA with SATA3.0, supports up to 6Gbps transfer rate		
Operating System	Windows 10/11, Linux/Ubuntu/Redhat/Debian Options		
Cooling System	Fanless copper tube cooling		
I/Os Parameter			
USB	3*USB3.0, 3*USB2.0, 4*USB2.0 pins (built-in)		
Ethernet	2* RJ45 Ethernet (1000 Mbps + 2500 Mbps)		
Serial Port	4*COM Upgradeable to 6*COM (2*232/422/485 COM1,COM2 switchable by BIOS setting 4*232/485 switchable by jump cap)		
Display Interface	DP*1, HDMI*1, VGA*1		
GPIO	16-channel opto-isolated (can be upgraded with 16-channel non-isolated GPIOs)		
Wi-Fi/Bluetooth	1*M.2 support Key-E interface WiFi/Bluetooth module		
4G/5G	1*M.2 support Key-B interface M.2 5G (3052/3042) module or M.2 4G (3042) module		
Audio	Realtek ALC897 audio, 1*Line out and 1*MIC high fidelity audio, support 5.1 channels		
Buttons/Indicators	1* Power Button w/LED, 2-Pin Phoenix Terminal Remote Switch, AT-ATX DIP Switch, Clear Cmos DIP Switch		
Other Parameter			
Power Supply	DC IN 9-36V(Support upgrade to 20-60V wide voltage power supply)		
Power Consumption	≤150W		
Power Adapter	DC 24V adapter (Optional, support upgrade to AC 220V built-in switching power supply)		
Operating Temperature	-20°C~70°C		
Storage Temperature	-30°C~80°C		
Reliability Testing	Anti-static design, anti-surge design		
Material	SGCC galvanized sheet, aluminum alloy		
Color	Silver + Dark Blue		
Installation	Wall-mounted, desktop, rack-mounted		

# I/O Ports

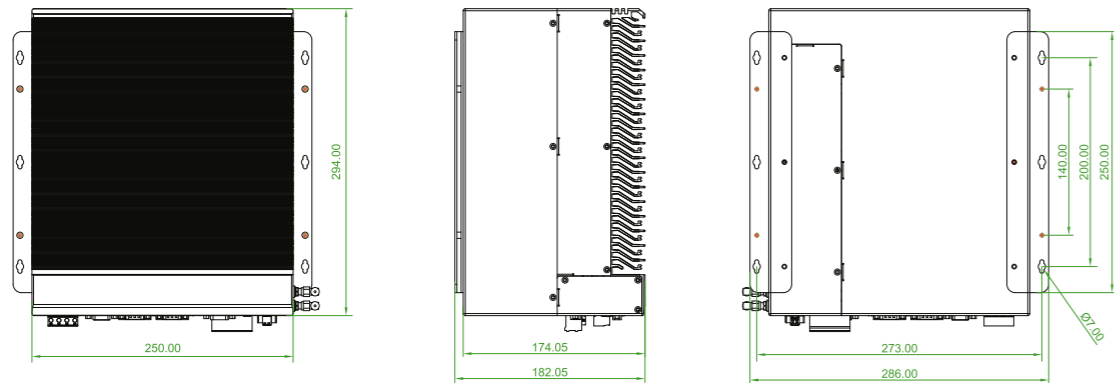


# Dimension

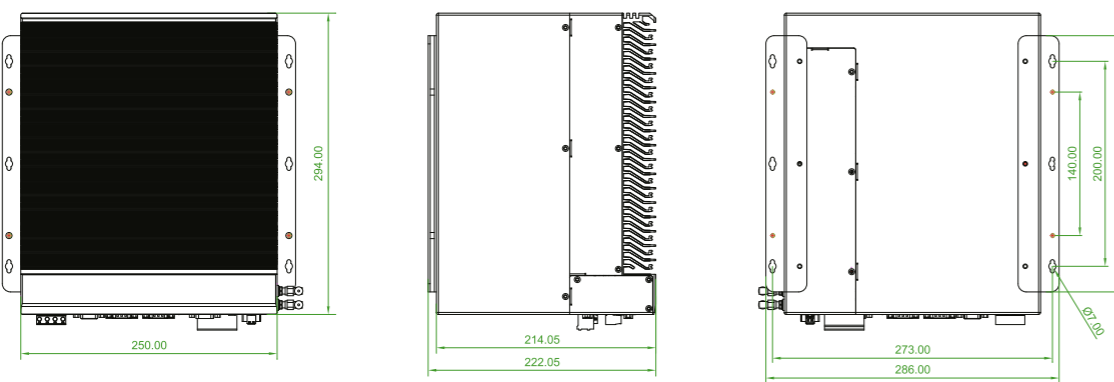
## Standard Version



## Dual-Slot Version



## Quad-Slot Version



# Company Profile

Established in 2018, Skilful Technologies has emerged as a pioneer in the dynamic field of mechatronics. With innovation at the core of our operations, we specialize in delivering cutting-edge solutions and unparalleled products that redefine industry standards.

Over the years, we have built a reputation for being a forward-thinking company, consistently staying ahead of technological advancements and setting benchmarks in the ever-evolving mechatronics landscape. Our team of 25 dedicated professionals brings together expertise, creativity, and a relentless drive to deliver excellence in every project we undertake.



**10000m<sup>2</sup>**  
Production and R&D bases



**6 item**  
Automatic production line



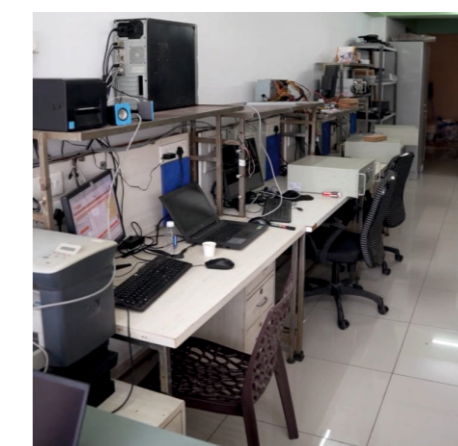
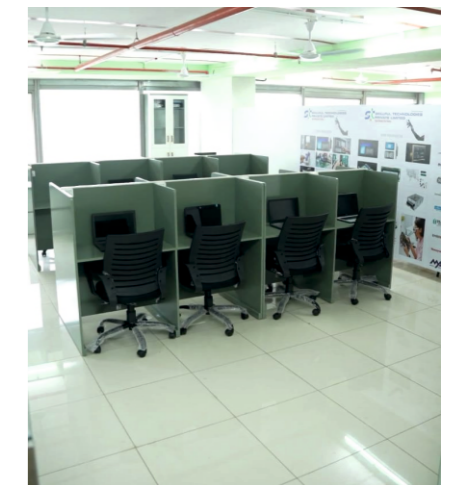
**400+**  
Excellent service team



**30%**  
Percentage of R&D staff



**130+**  
Awards / Innovations



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