

Suzhou Yuankong Electronics Co., Ltd.

Industrial control in various ways
is easy to handle with SPES TECH.

Electronic Content

More Info.

Intel® Partner

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Affiliated to China's top 500 companies "Shiyuan Electronics" — **CVTE** (Stock code 002841)
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Due to our company's continuous product upgrades, the content is subject to change without prior notice.

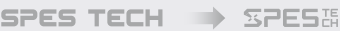


Industrial Computer Product Catalog

Product Classification

- | | |
|----------------------------|------------------------------|
| Industrial Motherboard | Industrial PC |
| Industrial Embedded BOX PC | Industrial Expandable BOX PC |
| Industrial Panel PC | Industrial Touch Display |
| Industrial Professional PC | Network Appliance |

Version: V3.1 **IPC**
Last Updated: July_2025

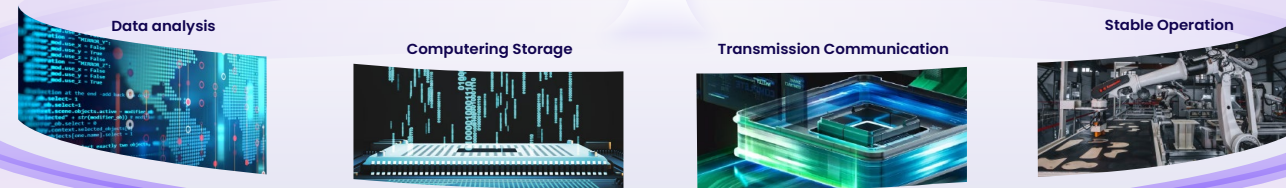


SPES TECH launched a new Visual Identity in March 2025, The product appearance shown in this catalog is for example only.
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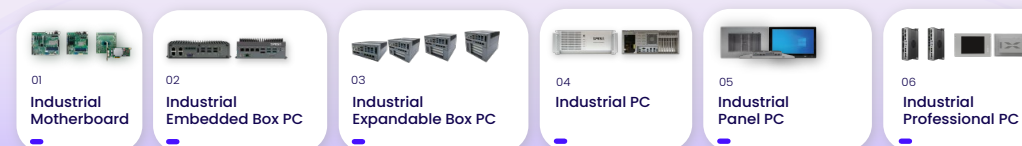
INDUSTRIAL PC SOLUTION



Industrial automation technology is becoming a rigid requirement for transformation in various industries. SPES TECH conducts in-depth research on process maps in various industries, adapts to the software and hardware characteristics of upstream and downstream industries, and creates an intelligent core driving force for them.



INDUSTRIAL PC HARDWARE



CORE R&D TECHONOLOGY



The world is undergoing profound changes from the industrial era to the intelligent era. Suzhou Yuankong's industrial control brand **SPES TECH**, adheres to the corporate mission of "Making production more efficient and life more convenient because of our existence".



Suzhou Yuankong Electronics Co., Ltd. founded in 2020 and affiliated to China's top 500 companies “Shiyuan Electronics”—CVTE (stock code 002841), computility and computer hardware product solution provider, headquartered in Suzhou Taihu Resort, “Yuankong Electronics” is a national high-tech enterprise with business operations all over the world.

SPES TECH is an independent brand of “Yuankong Electronics”, we always adheres to the principle of “Taking computing power as the core” and focuses on the hardware solution design and technical services of IPC. Our products include industrial motherboards, industrial computers, embedded industrial computers, industrial panel PC, industrial touch displays, network appliances, etc. Adhering to the corporate philosophy of “Leaping with intelligence”, we look forward to working with our partners to create a win-win situation with excellent computing power.

The concept of industrial computers is extensive and the requirements are complex. Automatic controlling technology will become a must for the digitalization and intelligent upgrading of various industries in the future. SPES TECH insists on the technological leadership of IPC integration solutions as our core pursuit. More than 60% of the employees are technical experts. We has a complete IPD full life cycle R&D management system. Based on many years of practical accumulation in the field of electronic industrial controlling, it helps customers achieve sustainable development.

New Brand of Industrial Control

3

Managemant System

106

Test control process

164

Utility Model Patent

10000

Project development experience

是非成败转头

空，青山依旧

在，惊涛拍岸

春风，一度换



Industrial Computer Sloutins Provider



CIB series

Industrial Motherboard

ATX
Micro-ATX
Mini-ITX
3.5" / 4"
Giga-LAN Card / PoE Card
COM-E
QSeven



CIS series

Industrial PC / Embedded Industrial PC

2U Desk / Rack-mount
3U Desk / Rack-mount
4U Desk / Rack-mount
Embedded / Expandable
Professional PC



CIP / CID series

Industrial Panel PC / Touch Display

10.1" 12.1"
15" 15.6"
17" 19" 21.5"
15" 15.6" 17"
19" 21.5"



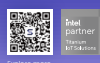
CNS series

Network Appliance

Traditional Platform
Intel® Platform-Skylake / Elkhart Lake
NXP Platform-LSI046A
Common Platform
Phytium Platform-D2000 / L2000Q
WYCON Platform-3450 / 5480 / 7475
Rockchip Platform-RK3588
Expansion Module
Intel® NIC-4 RJ45 / 4 SFP
NETSWIFT NIC-4 RJ45 / 4 SFP
MUCSE...

SPES TECH → SPES TECH Industrial Computer Brand

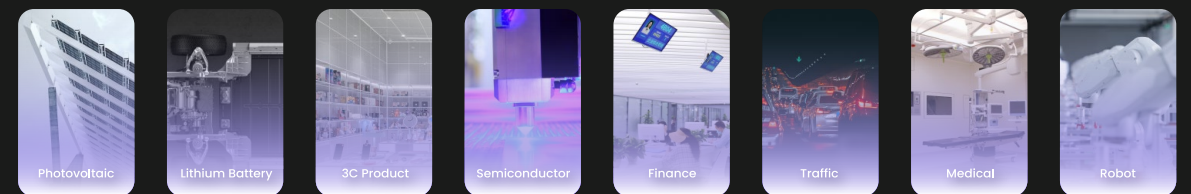
SPES TECH launched a new Visual Identity in March 2025.
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Explore more

Scene-based solutions

Extensive industrial control is becoming a rigid demand for the transformation of various industries.



3C Product: Computer / Communication / Consumer Electronic products.

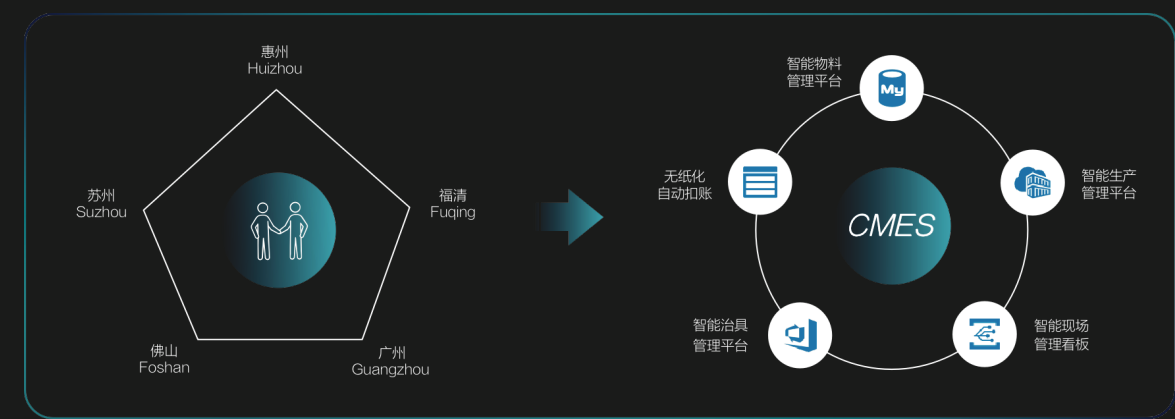
SPES TECH reserch the manufacturing processes of various industries to study process maps, and use powerful computility to help automate production and improve efficiency.

Company Location



18 Offices in China

Supply security



Relying on the **Tens of billions-level supply chain procurement capabilities** of ViewSonic, flexible shipments are made through **Five major production industries** across the country to solve the delivery problem of "small quantity and diverse products".

* The data source for company distribution is from internal statistics of Source Control.
The data source for overall supply capacity is from internal management system of CVTE and Suzhou Source Control.

Excellent quality

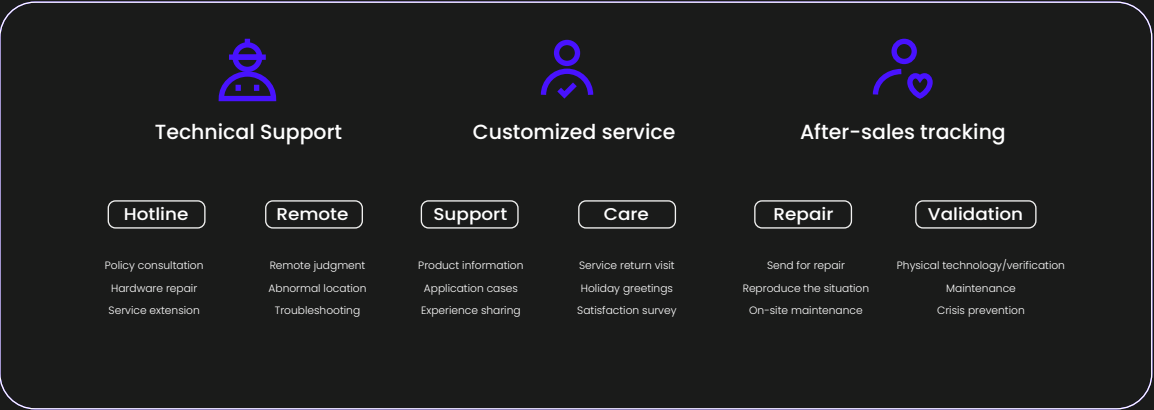
Reliability Test Evaluate the reliability characteristics of your product	30	System function and compatibility Test Verify system functionality, performance, and stability	36
Safety Test Ensure product safety for users and the environment	13	Electronic interference Test Comprehensive evaluation of interference and anti-interference capabilities of electronic products	9
Electrical performance Test Testing telecommunication parameters to ensure compliance with specifications and standards	18	Factory machine Test Strictly control quality before delivery	28

106  Test items

*Temperature rise laboratory, safety laboratory, environmental laboratory, shock laboratory – covering all tests from certification to electrical signals.

*Quality test data source: source control internal quality test process project.

Professional Services



FAE+ Customer Service Team

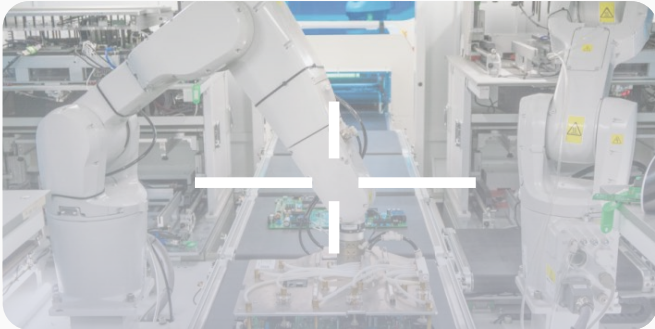
*SPES TECH source control is dedicated to providing you with professional service guidance for IPC selection.
Log on to www.spes.tech.com to learn more about product parameters, call 400-100-5558 for technical support, and FAE technical partners will answer your questions.v

More efficient production

Smart device manufacturing

Consumption growth and the development of new technologies have promoted the intelligent transformation of the retail industry. Unmanned retail, smart shelves, logistics monitoring, etc. have not only improved the industry's operational efficiency, but also given consumers a higher sense of satisfaction.

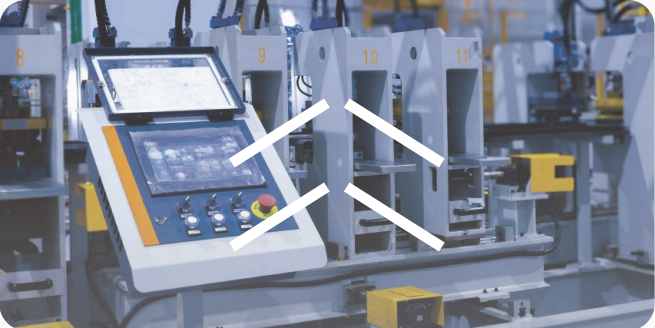
SPES TECH industrial computer series products provide high-quality core computing units for equipment, promoting the construction of an omni-channel ecological pattern in the retail industry.



Smart Factory and IOT Intelligence

As a new data computing architecture, the deep integration of edge computing and the Internet of Things provides guarantees for the timeliness, security and scalability of data.

SPES TECH edge computing series products can add momentum to accelerate the deployment of Internet of Things applications and help the industry maximize benefits in operational optimization and business transformation. In the era of industrial Internet of Things, the number of connected devices has increased, and all types of data have exploded.



Robotics and Automation Control

De-manualization and equipment intelligence have become important paths for the current transformation of the manufacturing industry.

SPES TECH industrial computer series products provide high-reliability core computing units for equipment and facilities, and can be flexibly customized according to customer needs to maximize the guarantee of corporate production operations.

Make life more convenient

Smart logistics and scanning sorting

Automatic sorting equipment + artificial intelligence replacing traditional manual labor has become one of the mainstream solutions for domestic manufacturing and logistics companies.

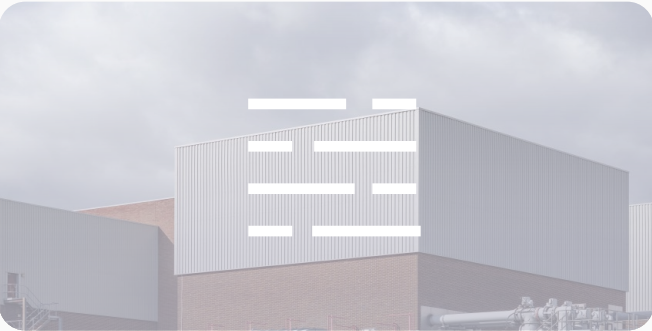
SPES TECH industrial computer products can meet the characteristics of long-term and batch sorting of goods in logistics sorting systems in harsh climates where manual labor cannot work for long periods of time, effectively improving production efficiency.



Smart City and Energy Environment

The rapid development of industries such as the Internet of Things, big data and artificial intelligence has enabled the sustainable development of human society, and the ecological environment has also been protected simultaneously. From smart transportation to smart government affairs and smart parks, from medical care to finance.

SPES TECH computing equipment provides full-scenario solutions and services, aiming to improve resource operation efficiency and optimize urban government services and environmental management and governance levels.



Smart education and technology inclusion

In the era of AI-powered smart education, SPES TECH industry PCs can assist in restoring teaching scenarios, helping teachers improve teaching quality; achieving personalized and precise learning to help students solve learning blind spots; achieving digital management of smart education in large regions, helping schools improve their teaching management level.

Enabling modern education to be more scientific and effective, and promoting the exchange of digital teaching equipment and learning materials, as well as teaching students in accordance with their aptitude.



CATALOGUE

Caution:

1. About model distinction: This catalog is divided into product development models and main sales models. The actual sales model shall prevail in transactions.
2. About display interface: DP 1.2 supports 4K, the highest resolution is 4096x2160@60Hz, HDMI 1.4 supports 4K, the highest resolution is 3840x2160@30Hz
3. Regarding specifications: Due to continuous product upgrades, the content is subject to change without prior notice. Please confirm the specifications in advance.

CIB-Industrial Motherboard P13

Industrial ATX MB	P16
Industrial Micro-ATX MB	P19
Industrial Mini-ITX MB	P20
Industrial 3.5" MB	P21
Industrial COM-E computer on module	P23
QSeven CPU Module	P26
GbE-LAN Card/PoE Card	P27
10GbE-LAN Card/PoE Card	P28

CIS-Industrial Embedded BOX PC P28

CIS-Industrial Expandable BOX PC

Embedded BOX PC	P31
Expandable BOX PC	P35
Book-Shapen BOX PC	P39
ARM architecture embedded BOX PC	P41

CIS-Industrial PC P43

2U Desk-Mount	P47
2U Rack-Mount	P48
3U Desk-Mount	P51
4U Desk-Mount	P56
4U Rack-Mount	P61
Industrial Professional PC	
Machine Vision Industrial PC	P68
ZHAOXIN Platform Industrial PC	P69
PHYTIUM Platform Industrial PC	P70

CIP-Industrial Panel PC P71

Bay Trail Celeron® J1900	P73
Tiger Lake UP3	P75
Elkhart Lake J6412	P77
Raptor Lake	P79
Adler Lake	P82
Rockship	P83

Industrial Professional PC

EMS Panel PC	P84
Environmental protection Panel PC	P85
Woodworking machinery Panel PC	P86

CID-Industrial Touch Display P87

15"	15.6"	17"
19"	21.5"	
		P90

CNS-Network Appliance P91

Tradition Platform	
Intel® Platform-Skylake / Elkhart Lake	
NXP Platform-LS1046A	
Domestic Platform	
Phytium Platform-D2000 /E2000Q	P94
HYGON Platform-3450 / 5480 / 7475	
Rockship Platform-RK3588	
Expansion Module	
Intel® NIC-4 RJ45 / 4 SFP	P95
NETSWIFT NIC-4 RJ45 / 4 SFP	
MUCSE.....	P96

**Only chip products from the above brands are purchased.
The adaptation processing is completed independently by "Yuantong Electronics".

CIB

Industrial Motherboard

CIS

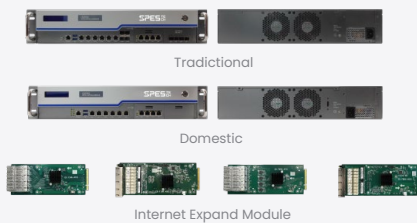
Industrial Embedded BOX PC
Industrial Expandable BOX PC
Industrial PC

CIP / CID

Industrial Panel PC / Touch Display

CNS

Network Appliance



Industrial Motherboard

Various scenarios

SPES TECH has designed industrial motherboards in various sizes, including ATX, Micro-ATX, Mini-ITX, 4", 3.5", COM-E, etc., based on various industrial application scenarios. There are not only H110 / Q170 / Q470 / Q670 / W680 series that support multiple expansion interfaces, but also small-sized or cost-effective J1900 / Elkhart Lake / Tigerlake UP3 series, etc., all of which have rich internal and external I/O interfaces to meet various needs.

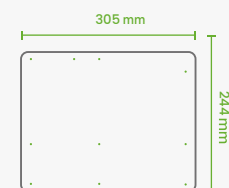
OS Recovery function

All series support the adaptation of the "remote switch" function, providing customers with more convenient use and maintenance methods, which can effectively reduce after-sales maintenance costs; at the same time, for the fields of machine vision, scientific instrument monitoring, motion control, etc., we have designed a variety of PCIe interfaces that support 10/100/1000Mbps network interface expansion cards that can adapt to chassis structures of various sizes.

Motherboard structure and assembly

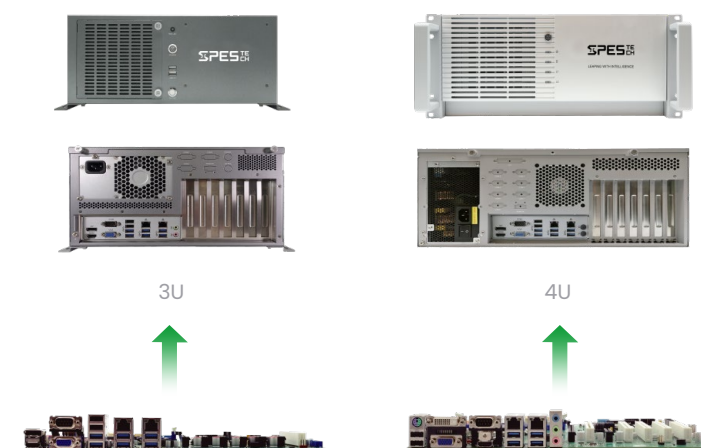
For example: ATX Form

Assembly instructions



ATX Form

Chassis Diagram



High Degree of
Standardization



ATX

- W680 • Q670 • H610
- Q170 • Q470 • H110

Standard ATX size, supports 7-slot PCI/PCIe expansion interface, Intel® 6th-13th Generation Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU.

VGA, HDMI, DP++, DVI and other display modes, support hardware TPM module, with 16-bit editable GPIO, with KB Lock and Case Open functions

It has USB self-recovery function, 5V/5VSB power supply optional, and an internal USB Type-A interface for connecting dongles and other devices.



Micro-ATX

- Q670 • Q470 • H110

Standard Micro-ATX size, supports 4-slot PCI/PCIe expansion interface, supports Intel® 6th-13th Generation Core™ i9/i7/i5/i3/Pentium®/Celeron® CPU.

It has multiple display modes such as VGA, HDMI, DP++, DVI, etc., supports hardware TPM module, has 16-bit editable DIO, and has KB lock and Case Open functions.

It has USB self-recovery function, and 5V/5VSB power supply is optional. It also contains a USB Type-A interface for connecting to dongles and other devices.



Mini-ITX

- H110 • H610

Standard Mini-ITX size, supports Intel® 6th/7th Generation Core™ i7/i5/i3/Pentium®/Celeron® processor (up to 65W).

Supports single-slot PCIe expansion, VGA, HDMI and DVI display, with rich I/O interfaces 2 x SATA3.0, 4 x USB 3.0.

It has a USB self-recovery function and contains a USB Type-A interface for connecting devices such as dongles.



3.5"

- Intel® Elkhart Lake J6412
- Intel® 11th Tiger Lake UP3

Standard 3.5", supports Intel® Elkhart Lake Celeron® J6412 and Intel® 11th Tigerlake UP3, etc.

Supports 12-24V wide voltage input, has rich I/O interfaces, including 4 Gigabit Ethernet ports, 4 serial ports, 6 USB ports, etc., supports HDMI, DP++, LVDS/eDP

Supports remote switch, and has the unique "OS Recovery" function of source control series products. Small size, low power consumption, complete



4 ports / 2 ports

- I350-AM4 • I210-AT • X550-AT2

The network card/POE card has 4-port, 2-port, 1-port and other versions, using PCIe expansion interface

Supports Gigabit Ethernet port mode or POE port mode, network chips can be selected from Intel® I210AT / I211AT, etc., speed supports 10/100/1000 Mbps adjustable, POE is powered through the PCIe interface, supports IEEE 1588 and IEEE 802.3af, supports jumbo frames (9,500 bytes) and link aggregation.

The product size is full-height size and half-height size, both can be matched with full-height baffles, and can be adapted to chassis of different sizes. The products are widely used in mechanical vision, scientific instruments, motion control and other fields



COM-E

- Intel® Core i3-1115G4/i5-1135G7/i7-1165G7 i3-1115GRE/i5-1145GRE/i7-1185GRE/6305E

11th generation Intel Core™ processor, Tiger Lake UP3 platform

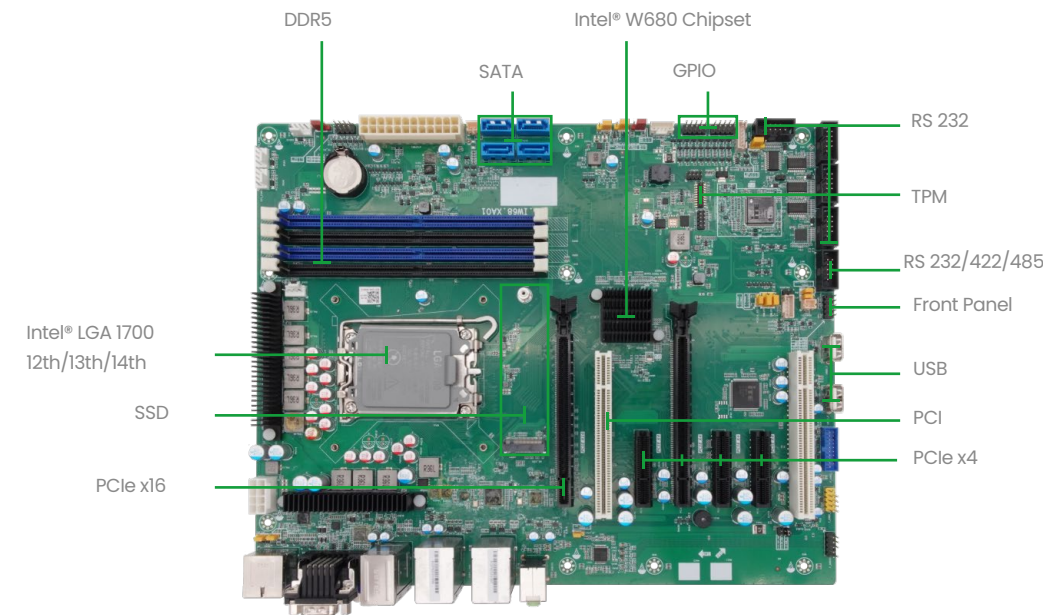
2.95 times graphics rendering processing and responsiveness, the platform uses Intel® Iris® Xe graphics GPU, which is applied to real-time control of computer numerical control (CNC) machines, human-machine interface, tool applications, medical imaging and diagnosis (ultrasound, etc.)

Slots supports:
1 x PCIe4 Gen 4.0 (16GT/s) , 5 x PCIe1 Gen 3.0 (8GT/s)
4 x USB 3.2 Gen 2 (10Gbps) , 5 x USB 2.0 (480Mbps)
2.5GbE LAN, 2 x SATA 3.0 (6Gbps)

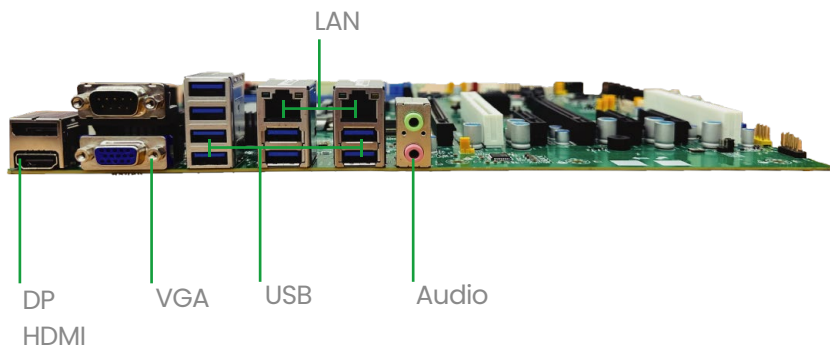
Structure & Assembly

CIS-IW68-XA01 as sample

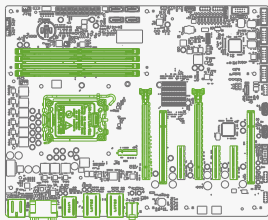
Overview



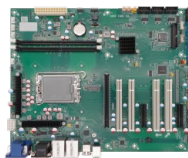
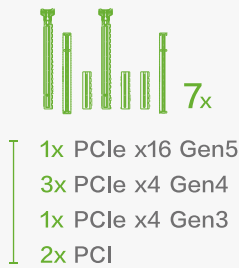
Slots



Reasonable Functional Division



Great scalability



Development Number		CIB-IW68-XA02	CIB-IH61-XA01
System	CPU	Intel® 12th/13th/14th, TDP up to 125W	Intel® 12th/13th, TDP up to 125W
	Chipset	Intel® W680 Chipset	Intel® H610 Chipset
	Memory	4x DDR5 U-DIMM, Max to 192GB	2x DDR4 U-DIMM, Max to 64GB
	BIOS	AMI 256Mbit SPI Flash	
	OS	Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V, 1x Intel® I210-AT	
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1x Line-out, 1x Mic-in	
	Slot	1x RS232/422/485	1x RS232/422/485 1x RS232
	USB	2x USB 3.2 (Gen2) 6x USB 3.2 (Gen1)	4x USB 3.2 (Gen1) 2x USB 2.0
	PS/2	/	
	Slot	2x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 3x PCIe x4 (Gen4) 2x PCI	1x PCIe x16 (Gen4) 1x PCIe x4 (Gen3, Bom Option PCIe x2) 1x PCIe x2 (Gen3) 4x PCI
Expansion Slot	Slot	1x M.2 2280 M Key (SATA or PCIe x4 NVMe) 1x M.2 2280 M Key (PCIe x4 NVMe Gen4)	1x M.2 2280 M key (SATA or PCIe x2 NVMe Gen3, Bom Option)
Internal I/O	COM	1x RS232/422/485 4x RS232	4x RS232
	USB	2x USB 2.0 Type-A 2x USB 3.2 (Gen1) 2x USB 2.0	2x USB 2.0 Type-A 2x USB 2.0
	SATA	4x SATA 3.0, Raid 0, 1, 5, 10	3x SATA 3.0 (4x SATA3.0, Bom Option)
	GPIO	1x 8bit GPIO, 8in/8out	1x 16bit GPIO, 8in/8out
	SIM	/	
	Audio	1x Front Audio (Line-out/Mic-in)	
	FAN	1x CPU Fan 3x System Fan	
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
	Power	ATX Power	
Environmental	Op.temp/ Humidity	0℃~60℃, 60℃ 95%RH	
	Storage.temp/ Humidity	-40℃ ~ 85℃, 60℃ 95%RH, Non-Condensing	
Mechanical	Dimension	ATX Form Factor, 305 x 244mm	
Sales Model		CIB-IW68-XA02	CIB-IH61-XA01



Development Number		CIB-IQ47-XA01	CIB-IQ47-XA02	CIB-IQ67-XA01
System	CPU	Intel® 10th/11th, TDP up to 125W		Intel® 12th/13th, TDP up to 125W
	Chipset	Intel® Q470 Chipset		Intel® Q670 Chipset
	Memory	4x DDR4 U-DIMM, Max to 128GB		
	BIOS	AMI 256Mbit SPI Flash		
	OS	Win 10-64bit; Linux		
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min		
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V, 1x Intel® I210-AT		4x RJ45: 1x Intel® I219-V, 3x Intel® I210-AT
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA		
	Audio	1x Line-out, 1x Mic-in		
	Slot	1x RS232/422/485		
	USB	4x USB 3.2 (Gen2) , 2x USB 3.2 (Gen1) 2x USB 2.0	4x USB 3.2 (Gen2) 2x USB 2.0	2 USB 3.2 (Gen2) 2x USB 3.2 (Gen1)
	PS/2	/		
	Slot	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) 2x PCIe x1 (Gen1) 1x PCI	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 3x PCIe x4 (Gen3) 2x PCI	2x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 3x PCIe x4 (Gen4) 1x PCIe x1 (Gen3) 1x PCI
Expansion Slot	Slot	1x Mini-PCIe 1x M.2 2280 (SATA or NVMe)	1x M.2 2280 (SATA or NVMe)	1x Mini-PCIe 1x M.2 2230 1x M.2 3052 1x M.2 2280 (SATA or NVMe)
Internal I/O	COM	1x RS232/422/485 4x RS232		
	USB	1x USB 2.0 Type-A, 2x USB 2.0 2x USB 3.1 (Gen1)	1x USB 2.0 Type-A 2x USB 2.0	1x USB 3.2 Type-A (Gen1) , 2x USB 2.0 2x USB 3.2 (Gen1) , 2x USB 3.2 (Gen2)
	SATA	4x SATA 3.0, Raid 0, 1, 5, 10	3x SATA 3.0, Raid 0, 1, 5, 10	4x SATA 3.0, Raid 0, 1, 5, 10
	GPIO	1x 16bit GPIO, 8in/8out		
	SIM	1x Nano SIM	/	1x Nano SIM
	FAN	1x CPU Fan 2x System Fan		1x CPU Fan 3x System Fan
	OS Recovery	1x OS Recovery		
	Front Panel	1x Front Panel		
	Power	ATX Power		
Environmental	Op.temp/ Humidity	0°C~60°C, 60°C 95%RH		
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing		
Mechanical	Dimension	ATX Form Factor, 305 x 244mm		
Sales Model		CIB-IQ47-XA01	CIB-IQ47-XA02	CIB-IQ67-XA01



Development Number		CIB-IH11-XA01	CIB-IQ17-XA01
System	CPU	Intel® 6th/7th, TDP up to 95W	
	Chipset	Intel® H110 Chipset	Intel® Q170 Chipset
	Memory	2x DDR4 U-DIMM, Max to 32GB	4x DDR4 U-DIMM, Max to 128GB
	BIOS	AMI 128Mbit SPI Flash	
	OS	Win 7-32/64bit; Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V, 1x Intel® I210-AT	4x RJ45: 1x Intel® I219-V, 3x Intel® I210-AT
	Display	1x VGA, 1x HDMI 1.4, 1x DVI	1x DP 1.2, 1x HDMI 1.4, 1x VGA
	Audio	1x Line-in, 1x Line-out, 1x Mic-in	1x Line-out, 1x Mic-in
	Slot	1x RS232/422/485	
	USB	4x USB 3.2 (Gen1) 2x USB 2.0	4x USB 3.2 (Gen1)
	PS/2	1x PS/2	/
	Slot	1x PCIe x16 (Gen3) 1x PCIe x4 (Gen2) 5x PCI	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) 3x PCI
Expansion Slot	Slot	1x Mini-PCIe 1x M.2 2280 (SATA3.0)	1x Mini-PCIe 1x M.2 2280 (SATA3.0)
Internal I/O	COM	1 x RS232/422/485 4 x RS232	
	USB	1x USB 2.0 Type-A 2x USB 2.0	1x USB 2.0 Type-A, 4x USB 2.0 2x USB 3.2 (Gen1)
	SATA	4x SATA 3.0	5x SATA 3.0, Raid 0, 1, 5, 10
	GPIO	1x 16bit GPIO, 8in/8out	
	SIM	1x Nano SIM	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 3x System Fan
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
	Power	ATX Power	
Environmental	Op.temp/ Humidity	0°C~60°C, 60°C 95%RH	
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing	
Mechanical	Dimension	ATX Form Factor, 305 x 244mm	
Sales Model		CIB-IH11-XA01	CIB-IQ17-XA01



Development Number		CIB-IH11-MA01	CIB-IQ47-MA01	CIB-IQ67-MA01
System	CPU	Intel® 6th/7th, TDP up to 95W	Intel® 10th/11th, TDP up to 125W	Intel® 12th/13th, TDP up to 125W
	Chipset	Intel® H110 Chipset	Intel® Q470 Chipset	Intel® Q670 Chipset
	Memory	2x DDR4 U-DIMM, Max to 32GB	4x DDR4 U-DIMM, Max to 128GB	
	BIOS	AMI 128Mbit SPI Flash	AMI 256Mbit SPI Flash	
	OS	Win 7-32/64bit; Win 10-64bit; Linux	Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min		
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V, 1x Intel® I210-AT	4x RJ45: 1x Intel® I219-V, 3x Intel® I226-V	
	Display	1x VGA, 1x HDMI 1.4, 1x DVI	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1x Line-in, 1x Line-out, 1x Mic-in	1x Line-out, 1x Mic-in	
	Slot	1x RS232/422/485		
	USB	6x USB 3.2 (Gen1) , 2x USB 2.0	4x USB 3.2 (Gen1)	4x USB 3.2 (Gen2)
	Slot	1x PCIe x16 (Gen3) 1x PCIe x4 (Gen2) 2x PCI	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3)	2x PCIe x16 (Gen4, 1x 16 or 2 x 8) 3x PCIe x4 (Gen4)
Expansion Slot	Slot	1x Mini-PCIe 1x M.2 2280 (SATA3.0)	1x Mini-PCIe 1x M.2 2280 (SATA or NVMe)	1x Mini-PCIe 1x M.2 2230 1x M.2 3052 1x M.2 2280 (SATA or NVMe)
Internal I/O	COM	1x RS232/422/485 4 x RS232		
	USB	1x USB 2.0 Type-A 2x USB 2.0	1x USB 3.2 Type-A (Gen1) 2x USB 2.0 4x USB 3.2 (Gen1)	1x USB 3.2 (Gen1) 2x USB 2.0 2x USB 3.2 (Gen1) , 2x USB 3.2 (Gen2)
	SATA	4x SATA 3.0	4x SATA 3.0, Raid 0, 1, 5, 10	
	GPIO	1x 16bit GPIO, 8in/8out		
	SIM	1x Nano SIM		
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 3x System Fan	
	OS Recovery	1x OS Recovery		
	Front Panel	1x Front Panel		
	Power	ATX Power		
	Environmental	Op.temp/ Humidity	0℃ ~ 60℃, 60℃ 95%RH	
Storage.temp/ Humidity		-40℃ ~ 85℃, 60℃ 95%RH, Non-Condensing		
Mechanical	Dimension	Micro-ATX Form Factor; 244 x 244mm		
Sales Model		CIB-IH11-MA01	CIB-IQ47-MA01	CIB-IQ67-MA01



Development Number		CIB-IH11-IC01	CIB-IH61-IC01
System	CPU	Intel® 6th/7th, TDP up to 65W	Intel® 12th/13th/14th, TDP up to 95W
	Chipset	Intel® H110 Chipset	Intel® H610 Chipset
	Memory	2x DDR4 SO-DIMM, Max to 32GB	2x DDR5 SO-DIMM, Max to 96GB
	BIOS	AMI 128Mbit SPI Flash	AMI 256Mbit SPI Flash
	OS	Win 7-32/64bit; Win 10-64bit; Linux	Windows 10/11 64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V, 1x Intel® I210-AT	2x RJ45: 1x Intel® I219-V, 1x Intel® I210-AT
	Display	1x VGA, 1x HDMI 1.4, 1x DVI	1x DP 1.2, 1x HDMI 1.4, 1x VGA
	Audio	1x Line-in, 1x Line-out, 1x Mic-in	1x Line-out, 1x Mic-in
	Slot	1x RS232/422/485	2x RS232/422/485
	USB	4x USB 3.2 (Gen1) 4x USB 2.0	4x USB 3.2, 2x USB 2.0
	Remote SW	1x Remote ON-OFF	/
Expansion Slot	Slot	1x PCIe x16 (Gen3)	1x PCIe x16 (Gen4)
Internal I/O	Slot	1x Mini-PCIe 1x M.2 2242 (SATA 3.0)	1x Mini-PCIe, 1x M.2 2280 1x M.2 2230
	COM	1x RS232/422/485 4x RS232	4x RS232
	USB	1x USB 2.0 Type-A 2x USB 2.0	1x Vertical USB Type-A, ATX only 2x USB 2.0
	SATA	2x SATA 3.0	
	GPIO	1x 8bit GPIO, 4in/4out	
	SIM	1 x Nano SIM	
	FAN	1x CPU Fan 1x System Fan	
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
	Power	ATX / DC-IN; BOM option	
Environmental	Op.temp/ Humidity	0°C ~ 60°C, 60°C 95%RH	
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing	
Mechanical	Dimension	Mini-ITX Form Factor; 170 x 170mm	
Sales Model		CIB-IH11-IC01	CIB-IH61-IC01



Development Number		CIB-IMTL-TW01
System	CPU	Intel® Core™ Processor Ultra 5 processor i35U,i25H
	Chipset	2x DDR5 SO-DIMM, Up to 96GB
	BIOS	AMI 256Mbit SPI Flash
	OS	Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min
Rear I/O	Interface	4x RJ45: 1x Intel® I226-V, 3x Intel® I210-AT
	Display	1x HDMI 1.4, 1x DP 1.2 1x USB-C Supports DP++
	USB	3x USB3.2 (Gen2) 1x USB-C Supports USB 3.2 (Gen2)
	LED	1x Power LED, 1x HDD LED
	OS Recovery	1x OS Recovery
Internal I/O	Expansion Slot	1x M.2 2280 (SATA or NVMe) 1x M.2 2230, 1x M.2 3052
	Display	1x LVDS/eDP Co-lay
	Slot	1x RS232/422/485 3x RS232 COM 1&2, COM 3&4 TX RX GND
	USB	2x USB 2.0
	SATA	1x SATA 3.0
	GPIO	1x 8bit GPIO, 4in/4out
	FAN	1x CPU Smart Fan
	Audio	1x Audio (Line-out&Mic-in)
	Front Panel	1x Front Panel
	Power	12V~24V DC
Environmental	Op.temp/ Humidity	0°C ~ 60°C, 60°C 95%RH
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing
Mechanical	Dimension	3.5" Form factor; 146 x 102mm
Sales Model		CIB-i35U-TW01 CIB-i25H-TW01



Development Number		CIB-IELK-TW01	CIB-ITLU-TW01
System	CPU	Intel® Elkhart Lake J6412	Intel® 11th Tiger Lake UP3 i3-1115G4/i5-1135G7/i7-1165G7
	Chipset	1x DDR4 SO-DIMM, Up to 32GB	1x DDR4 SO-DIMM, Up to 32 GB
	BIOS	AMI 128Mbit SPI Flash	
	OS	Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Rear I/O	Interface	4x RJ45: 4x Intel® I210-AT	4x RJ45: 3x Intel® I210-AT, 1x Intel® I219-V
	Display	1x HDMI 1.4 1x DP 1.2	
	USB	4x USB 3.2 (Gen1)	4x USB 3.2 (Gen2)
	LED	1x Power LED, 1x HDD LED	
	OS Recovery	1x OS Recovery	
Internal I/O	Expansion Slot	1x Mini-PCIe 1x M.2 2242 (SATA 3.0) , 1x M.2 2230	
	Display	1x LVDS/eDP Co-lay	
	Slot	2x RS232/422/485 2x RS232	
	USB	2x USB 2.0	
	SATA	1x SATA 3.0	
	GPIO	1x 8bit GPIO, 4in/4out	
	FAN	1x CPU Smart Fan	
	Audio	1x Audio (Line-out&Mic-in)	
	Front Panel	1x Front Panel	
	Power	12V~24V DC	
Environmental	Op.temp/ Humidity	0°C ~ 60°C, 60°C 95%RH	
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing	
Mechanical	Dimension	3.5" Form factor; 146 x 102mm	
Sales Model		CIB-IELK-TW01	CIB-i15G-TW01 CIB-i35G-TW01 CIB-i65G-TW01



Development Number		CIB-ITLU-EC01	
System	CPU		Intel® 11th i7/i5/i3/Celeron (Tiger lake UP3) i3-1115G4/i5-1145G7/i7-1165G7/6305E
	Memory		1x DDR4 SO-DIMM, Up to 32GB
	BIOS		AMI 128Mbit SPI Flash
	OS		Win 10-64bit; Linux
	Watchdog Timer		System Reset, Programmable 255 levels timer interval, From 1-255 sec/min
I/O	Form FactorPin-out Type		COM Express R3.0 Type 6 compatible
	Connector ROW A,B	Display	1x LVDS Up to 1920 x 1080@60Hz; Default, Colay eDP 1x eDP Up to 4096 x 2304@60Hz; Default None, Cloay LVDS 1x VGA Up to 1920 x 1200@60Hz; Default , Colay DDI3 From Connector ROW C, D
		HDA	1x HD Audio
		LAN	1x Controller1 Intel® I226-V GbE (10/100/1000 Mbps) MDI
		USB	8x USB2.0
		SATA	2x SATA 3.0 (up to 6Gb/s)
		PCIE	5x PCIE x1
		PLC	1x LPC
		I2C	1x I2C
		FAN	1x FAN Support Smart FAN
		SPI	1x SPI
		SMBUS	1x SMBUS
	Connector ROW C,D	Display	1x DDI1 Port for HDMI / DisplayPort 1x DDI2 Port for HDMI / DisplayPort 1x DDI3 Port for HDMI / DisplayPort, Coly Connector ROW A, B; VGA, Default None
		PICE	1x PCIe x4
		USB	4x USB3.2 (Gen2)
		DC_in	DC IN 12V
Environmental	Op.temp/ Humidity		Standard: -10°C ~ 60°C Wide Temp: -40°C ~ 85°C, 40°C 95%RH, Non-Condensing
	Storage.temp/ Humidity		-40°C ~ 85°C, 60°C 95%RH, Non-Condensing
Mechanical	Dimension		95 x 95mm
Sales Model		CIB-ITLU-EC01	



Development Number		CIB-ITLU-EC02	
System	CPU		Intel® 11th i7/i5/i3/Celeron (Tiger lake UP3) i3-1115G4/i5-1145G7/i7-1165G7/6305E
	Memory		2x DDR4 SO-DIMM, Up to 64G
	BIOS		AMI 128Mbit SPI Flash
	OS		Win 10-64bit; Linux
	Watchdog Timer		System Reset, Programmable 255 levels timer interval, From 1-255 sec/min
I/O	Form FactorPin-out Type		COM Express R3.0 Type 6
	Connector ROW A,B	Display	1x LVDS Up to 1920 x 1080@60Hz; Default, Colay eDP 1x eDP Up to 4096 x 2304@60Hz; Default None, Cloay LVDS 1x VGA Up to 1920 x 1200@60Hz; Default , Colay DDI3 From Connector ROW C, D
		HDA	1x HD Audio
		LAN	1x Controller1 Intel® I226-V GbE (10/100/1000 Mbps) MDI
		USB	8x USB2.0
		SATA	2x SATA 3.0 (up to 6Gb/s)
		PCIE	5x PCIE x1
		PLC	1x LPC
		I2C	1x I2C
		FAN	1x FAN Support Smart FAN
		SPI	1x SPI
		SMBUS	1x SMBUS
	Connector ROW C,D	Display	1x DDI1 Port for HDMI / DisplayPort 1x DDI2 Port for HDMI / DisplayPort 1x DDI3 Port for HDMI / DisplayPort, Coly Connector ROW A, B; VGA, Default None
		PICE	1x PCIe x4
		USB	4x USB3.2 (Gen2)
		DC_in	DC IN 12V
Environmental	Op.temp/ Humidity		Standard: -10°C ~ 60°C Wide Temp: -40°C ~ 85°C, 40°C 95%RH, Non-Condensing
	Storage.temp/ Humidity		-40°C ~ 85°C, 60°C 95%RH, Non-Condensing
Mechanical	Dimension		125 x 95 mm
Sales Model		CIB-ITLU-EC02	



Development Number		CIB-IADN-SD01
System	CPU	Intel® Alder Lake -N N97 (2.00 GHz) Supports Aldear Lake-N, Twin Lake, Smston Lake
	Memory	1x DDR5 5600 MHz SO-DIMM, Up to 16GB
	Storage	On Board eMMC, 64G B to 256GB
	BIOS	AMI 128Mbit SPI Flash
	Watchdog Timer	Win 10/11-64bit; Linux
I/O	Form Factor Pin-out Type	SMARC
	LAN	1x LAN Controller1 Intel® I210-AT GbE (10/100/1000 Mbps) MDI
	SATA	2x SATA
	Audio	1x HDA
	USB	4x USB 2.0 2x USB 3.0
	PCIE	4x PCIe1
	Display	2x DDI
	Other	1x ESPI 1x SPI 1x GPIO 1x FAN 1x Power button
Environmental	Op.temp/ Humidity	0°C ~ 60°C, 60°C 95%RH (SSD)
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing
Mechanical	Dimension	94 x 82 x 10.1mm
Sales Model		CIB-IADN-SD01



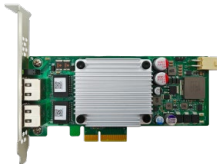
Development Number		CIB-IELK-QD01
System	CPU	Intel® Elkhart Lake J6412 (2.00 GHz)
	Memory	LPDDR4-2400, MAX to 16GB
	Storage	eMMC, 4GB to 64GB
	BIOS	AMI SPI Flash
	OS	Windows 10 64bit; Linux
I/O		Intel® I210-AT GbE (10/100/1000 Mbps)
		1x LVDS
		2x USB 3.0*2 4x USB 2.0
		1x CAN 2.0
		4x PCIe x1
		1x DDI
		1x HD Audio
		1x SDIO
		1x SMBUS
		1x I2C
		1x LPC
		2x UART
Environmental	Op.temp/ Humidity	0°C ~ 60°C, 60°C 95%RH
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing
Mechanical	Dimension	70 x 70mm
Sales Model		CIB-IELK-QD01



Development Number		CIB-4LAN-350A	CIB-4LAN-210D
Interface	Bus	PCI Express x4, PCIe (Gen2)	PCI Express x2, PCIe (Gen2)
	Chipset	Intel® I350-AM4, IEEE 1588	Intel® I210-AT, IEEE 1588
	Port	4x RJ45, 10/100/1000 Mbps	
	PoE	1000Base-T ; IEEE 802.3af Compliant ; 15.4W@48VDC Consumption	
	Support	Jumbo Frames (9,500 byte) , Link Aggregation	
	Cable	Cat 5e or Cat 6, most 100 meters	
Power	Power Input	PCIe Slot, or 12V AT/ATX System Power Input Maximal 3A @ 3.3V From PCI Express Bus Maximal 5.6A @ 12V Directly From PCI Express Bus	
	Power Consumption	Max. 60W w/ 4 x PoE Power Load	
OS	OS Support	Windows 7/Windows 10, Linux	
Environmental	Op.temp/ Humidity	0°C ~ 60°C, 60°C 95%RH	
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing	
Mechanical	Dimension	168 x 69 mm, full-height (half-height optional)	150 x 112mm, full-height
Sales Model		CIB-4LAN-350A	CIB-4LAN-210D



Development Number		CIB-4LAN-210C	CIB-2LAN-225A
Interface	Bus	PCI Express x4, PCIe (Gen2)	
	Chipset	Intel® I210-AT, IEEE 1588	
	Speed	4x RJ45, 10/100/1000 Mbps	2x RJ45, 10/100/1000 Mbps
	PoE	1000Base-T ; IEEE 802.3af Compliant ; 15.4W@48VDC Consumption	
	Support	Jumbo Frames (9,500 byte) , Link Aggregation	
	Cable	Cat 5e or Cat 6, most 100 meters	
Power	Power Input	PCIe Slot, or 12V AT/ATX System Power Input Maximal 3A @ 3.3V From PCI Express Bus Maximal 5.6A @ 12V Directly From PCI Express Bus	
	Power Consumption	Max. 60W w/ 4 x PoE Power Load	Max. 35W w/ 2 x PoE Power Load
OS	OS Support	Windows 7/Windows 10, Linux	
Environmental	Op.temp/ Humidity	-10°C ~ 60°C, 60°C 5%~ 95%RH	
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing	
Mechanical	Dimension	182 x 69mm, full-height (half-height optional)	168 x 69mm, full-height (half-height optional)
Sales Model		CIB-4LAN-210C	CIB-2LAN-210A



Development Number		CIB-2LAN-550A
Interface	Bus	PCI Express x4 (Gen3)
	Chipset	Intel® X550-AT2
	Port	2x RJ45, 2 LED for PoE On/Off Mode
	Speed	10Gbps/1Gbps/100Mbps (*Linux only)
	PoE	IEEE 802.3at-2009 (PoE+) Compliant 30W@48VDC Consumption, with PoE+Power on/off Control
	Support	Jumbo Frames (15,500 Byte) , Link Aggregation
	Cable	For 10GBASE-T: CAT 6a (100 meters) or CAT 6 (55 meters) For 5 Gbps NBASE-T: CAT 6 (100 meters) For 2.5 Gbps NBAST-T: CAT 5e (100 meters)
Power	Power Input	PCIe Slot, or 12V AT/ATX System Power Input Maximal 3A @ 3.3V From PCI Express Bus Maximal 5.6A @ 12V Directly From PCI Express Bus
	Power Consumption	Max. 11W w/ 2 x 10 GbE Power Load Max. 60W w/ 2 x PoE Power Load, Protect by Recoverable eFuse
OS	OS Support	Windows 7/ Windows 10, Linux
Environmental	Op.temp/ Humidity	-10°C ~ 60°C, 60°C 5%~ 95%RH
	Storage.temp/ Humidity	-40°C ~ 85°C, 60°C 95%RH, Non-Condensing
Mechanical	Dimension	162.8 x 68.1mm, half-height
Sales Model		CIB-2LAN-550A

Industrial Embedded BOX PC

Industrial Expandable Fanless Box PC

Exquisite Mechanism Design

With complete functions, solid shell and smart body, it complies with EMC protection test standards of various countries.

The embedded and scalable structure adopts an integrated heat dissipation structure to help you cope with more stringent operating environments, and choose different processors to meet different performance and rich I/O interface requirements. Some models can support fan selection, adapt to high-generation processors and graphics cards, and are compatible with the underlying AI edge computing performance. The powerful computing architecture cooperates with you tacitly.

Different Industrial Cases

For use cases such as embedded automation control, machine vision, 3C product inspection, robot integration control, and AI empowerment, in order to meet customers' more extensive expansion needs, we recommend that you use an expandable BOX PC that supports up to 4-slot PCI or PCIe expansion.

OS Recovery Function

SPES TECH's full range of industrial computers supports the adaptation of the "remote power on/off" function and the unique "OS Recovery" function, which can meet a variety of usage scenarios and significantly reduce equipment use and maintenance costs.

AI BOX

- Scalable modular industrial computer with excellent computing power architecture.

- Intel® 12th/13th/14th Core™ / Pentium®/Celeron® (TDP up to 65W)
- LGA 1700, Q670 Chipset
- 2x DDR5, Max to 96GB
- 6x RJ45, 6x COM
- 1x VGA, HDMI and DP++ Display
- 1x Line-out, 1x Mic-in, optional
- 8x USB 3.2 (Gen 2) , 2x USB 2.0 Type-A
- 16Bit Isolated DIO
- 3x SATA 3.0, 3x SATA Power
- 1x TPM 2.0 pin header
- 2x PCIe x16, 2x PCIe x4

DIO

16Bit Isolated DIO; 8 x DI, 8 x DO
Isolation Level: DI/DO: 2KVDC/AC
Voltage range: High level: 18~50V, Low level: 0~5V
Drive Capability: ≤350mA
Response frequency: ≤1KHz

Power

Motherboard power supply:
Fanless: 12V~24V, 7A~3.5A
Faned: 12V~24V, 12A~5.5A
Voltage floating: High 12V~9%, Top 24V±20%
GPU power supply:
DC-IN: 24V ±10% floating

Cover Fan

13567mm²
Fan area

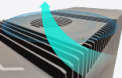
9μs Response Delay

Real-time

intel

12th / 13th / 14th
Core™ / Pentium® / Celeron®
CPU platform

Leverage the latest 14th Gen Intel® Core™ processors to build a powerful multitasking platform for AI solutions at the edge.



AI-328 Computing Solution



Photovoltaic Module Quality Inspection Solution



AOI Inspection Solution



Medical Edge Operation Solution



Learn more about Intel® Deep Learning Acceleration Technology



Extremely precise structure
Horizontally or vertically mounting

- The whole machine uses SGCC environmentally friendly steel
- Multiple air outlets with server-level fans
- Rich I/O and strong scalability
- Efficient video memory and extremely low latency

*support RTX 40

Dimenmsion



296mm

202mm

390mm



Learn more about AI BOX

PJ19

- 159 x 129 x 38mm
- Intel® Bay Trail Celeron® J1900
- 1x DDR3L SO-DIMM, Up to 8GB
- 2x RJ45
- 1x VGA, 1x HDMI 1.4
- 1x USB 3.2 Gen1, 5x USB 2.0, 2x RS232/422/485
- 12~24V DC, -20°C~60°C



PELK

- 192 x 111 x 45 mm
- Intel® Elkhart Lake J6412 (2.00 GHz)
- 1x DDR4 2666/3200MHz SO-DIMM, Max to 32GB
- 4x RJ45
- 1x DP 1.2, 1x HDMI 1.4
- 4x USB 3.2 Gen1, 2x RS232/422/485
- 12~24V DC, -20°C~50°C



XADL

- Through expansion, it is suitable for various high-computing power automation scenarios.

- Equipped with Intel® 12th/13th/14th high-performance CPU platform
- Precision structure, compact size, rich I/O, designed for embedded expansion
- Support 12 ~ 24V wide voltage power input
- Basic support 4x Intel® Gigabit Ethernet, 8x USB, 6x COM with self-isolation
- Support 8in 8out DIO, DP+VGA+HDMI display (Q670)
- The product can support 2 to 4 slots through expansion cards
- Up to expand PCIe x16, PCIe x4 or PCIe interfaces
- Suitable for machine vision, 3C inspection, robots, AI and other fields with high computing power requirements

COM:
6x COM, including:
COM1-2 (RS232/422/485): BIOS adjust
TX/RX, Isolation Level: 2KVDC/AC;
COM3-6: (RS232 TX RX GND)

Dimension:
229 x 202 x 82 mm, Basic
229 x 202 x 134 mm, 2 Slots
229 x 202 x 156 mm, 3 Slots
229 x 202 x 174 mm, 4 Slots

- EB.RXB.2PCI: 2x PCI
 - EB.RXB.2CEI: 1x PCI + 1x PCIe x16
 - EB.RXB.2PEI: 1x PCIe x16 + 1x PCIe x4
- 2 Slots
- EB.RXB.3PCI: 1x PCIe x16 + 1x PCIe x4 + 1x PCI
 - EB.RXB.3PEI: 1x PCIe x16 + 1x PCIe x4 + 1x PCIe x1
 - EB.RXB.3CEI: 2x PCI + 1x PCIe x16
- 3 Slots
- EB.RXB.4CEI: 2x PCI + 1x PCIe x16 + 1x PCIe x4
- 4 Slots
- expandable card
- Learn more about XADL

Basic

2 Slots

3 Slots

4 Slots



Development Number		CIS-PJ19-LW01	CIS-PELK-LW01	CIS-PELK-LW02
System	CPU	Intel® Bay Trail Celeron® J1900	Intel® Elkhart Lake J6412	
	Memory	1x DDR3L SO-DIMM, Up to 8GB	1x DDR4 SO-DIMM, Up to 32GB	
	OS	Win 7-32/64bit, Win 10-64bit; Linux	Win 10-64bit; Linux	
	Watchdog	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min		
External I/O	Interface	2x RJ45: 2x Intel® I210-AT	4x RJ45: 4x Intel® I210-AT	
	Display	1x VGA 1x HDMI 1.4	1x HDMI 1.4 1x DP 1.2	
	Audio	1x Audio (Line-out&Mic-in 2 in 1)	/	
	COM	2x RS232/422/485		
	USB	1x USB 3.2 (Gen1) 5x USB 2.0	4x USB 3.2 (Gen1)	
	Button	1x Power Button w/LED		
	OS Recovery	1x OS Recovery		
	LEM	1x HDD LED, 1x ALARM LED	1x HDD LED, 1x ALARM LED	
Internal I/O	Expansion	2x Mini-PCIe 1x M.2 2242 (SATA 3.0) , 1x M.2 2230	1x Mini-PCIe 1x M.2 2242 (SATA 3.0) , 1x M.2 2230	
	COM	2x RS232		
	USB	2x USB 2.0		
	SATA	1x SATA 3.0		
	GPIO	1x 8bit GPIO, 4in/4out	1x 8bit GPIO, 4in/4out	
	SIM	1x SIM Card Slot		
	ATX/AT jumper	1x ATX/AT jumper		
Power	Power Type	12-24V DC in, 2P		
Environmental	Op.temp/ Humidity	-20℃ ~ 60℃ (SSD) , 0℃ ~ 40℃ (HDD) 60℃ 95%RH (SSD)	-20℃ ~ 60℃ (SSD) 60℃ 95%RH (SSD)	-20℃ ~ 50℃ (SSD, with 0.7m/s Air Flow) 50℃ 95%RH (SSD)
	Storage.temp/ Humidity	-40℃ ~ 60℃, 60℃ 95%RH, Non-Condensing		
	Random Vibration	5~500Hz, 2Grms (SSD) Operation		
	Sine Vibration	5~500Hz, 2G Non-Operation		
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms		
Mechanical	Mounting	Default : Desk-Mount, Wall-Mount Optional : DIN-Rail		
	Dimension	164.3 x 130.1 x 38.4mm	204 x 120 x 72mm	192 x 111 x 45 mm
Certification	Safety Certification	CCC		
Sales Mode		CIS-PJ19-LW01	CIS-PELK-LW01	CIS-PELK-LW02



Development Number		CIS-PELK-HT01
System	CPU	Intel® Elkhart Lake N6210
	Memory	1x DDR4 SO-DIMM, Up to 32GB
	OS	Win 10-64bit, Linux
	Watchdog	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min
External I/O	Interface	2x RJ45: 2x Intel® I210-AT
	Display	1x HDMI 1.4
	USB	1x USB 3.2 (Gen1) 1x USB 2.0
	Display	1x Power Button w/LED
	OS Recovery	1x OS Recovery
	LED	1x HDD LED, 1x 5G LED
Internal I/O	Expansion	1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2230 1x M.2 3052
	COM	1x RS232
	USB	2x USB 2.0
	GPIO	1x 8bit GPIO, 4in/4out
	SIM	1x SIM Card Slot
Power	Power Type	12~24V DC in, 2P
Environmental	Op.temp/ Humidity	-20°C ~ 60°C (SSD) , 60°C 95%RH (SSD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing
	Random Vibration	5-500Hz, 2Grms (SSD) Operation
	Sine Vibration	5-500Hz, 2G Non-Operation
Mechanical	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms
	Mounting	DIN-Rail
Mechanical	Dimension	130 x 105 x 38mm
Certification	Safety Certification	CCC
Sales Mode		CIS-P210-HT01



Development Number		CIS-PTLU-LW01
System	CPU	Intel® 11th i3/i5/Celeron Tiger Lake i3-1115G4/i5-1135G7/i7-1165G7
	Memory	1x DDR4 SO-DIMM, Up to 32 GB
	OS	Win 10-64bit; Linux
	Watchdog	System Reset,Programmable 255 levels timer interval, From 1~255 sec/min
External I/O	Interface	4x RJ45: 3x RJ45 Intel® I210-AT 1x RJ45 Intel® I219-V
	Display	1x HDMI 1.4 1x DP 1.2
	COM	2x RS232/422/485
	USB	4x USB 3.2 (Gen2)
	Display	1x Power Button w/LED
	OS Recovery	1x OS Recovery
	LED	1x HDD LED, 1x Power LED
Internal I/O	Expansion	1x Mini-PCle 1x M.2 2242 (SATA 3.0) 1x M.2 2230
	COM	2x RS232
	USB	2x USB 2.0
	SATA	1x SATA 3.0
	GPIO	1x 8bit GPIO, 4in/4out (Incompatible with external interfaces)
Power	Power Type	12~24V DC in, 2P
Environmental	Op.temp/ Humidity	-20℃ ~ 50℃ (SSD) , 50℃ 95%RH (SSD)
	Storage.temp/ Humidity	-40℃ ~ 60℃, 60℃ 95%RH, Non-Condensing
	Random Vibration	5~500Hz, 2Grms (SSD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
Mechanical	Mounting	Default : Desk-Mount, Wall-Mount Optional : DIN-Rail
	Dimension	204 x 120 x 72mm
Certification	Safety Certification	CCC
Sales Mode		CIS-P15G-LW01 CIS-P35G-LW01 CIS-P65G-LW01



Development Number		CIS-RJ19-LW01	CIS-RTLU-LW01	CIS-RELK-LW01
System	CPU	Intel® Bay Trail Celeron® J1900	Intel® 11th i7/i5/i3/Celeron Tiger Lake i3-1115G4/i5-1135G7/i5-1155G7/i7-1165G7/i7-1195G7	Intel® Elkhart Lake J6412
	Memory	1x DDR3L SO-DIMM, Up to 8 GB	1x DDR4 SO-DIMM, Up to 32 GB	1x DDR4 SO-DIMM, Up to 32 GB
	OS	Win 7-32/64bit, Win 10-64bit; Linux	Win 10-64bit; Linux	
	Watchdog	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min		
External I/O	Interface		4x RJ45: 1x Intel® I226-V 3x Intel® I210-AT	4x RJ45: 1x Intel® I226-V 3x Intel® I210-AT
	Display	1x VGA 1x HDMI 1.4	1x HDMI 1.4 1x VGA	1x HDMI 1.4 1x DP 1.2
	Audio	1x Audio (Line-out&Mic-in 2 in 1)		
	COM		4x RS232/422/485 2x RS232 2x RS485	4x RS232/422/485 2x RS232
	USB	1x USB 3.2 (Gen1) 5x USB 2.0	2x USB 3.2 (Gen2) , 2x USB 3.2 (Gen1) 2x USB 2.0	4x USB 3.2 (Gen1) 2x USB 2.0
	GPIO	1x 8 bit GPIO, 4in/4out		2x 8bit GPIO, 8in/8out (DB9)
	Botton	1x Power Button w/LED		
	OS Recovery	1x OS Recovery		
	LED	1x HDD LED, 1x ALARM LED		
	Remote SW	1x Remote ON-OFF		
Internal I/O	Expansion	1x Mini-PCle (USB/PCle) 1x Mini-PCle (USB) 1x M.2 2280 (SATA 3.0) 1x M.2 2230	1x Mini-PCle (USB/PCle) 1x M.2 3052 1x M.2 2280 (SATA 3.0) 1x M.2 2230	1x Mini-PCle (USB/PCle) 1x M.2 3052 1x M.2 2280 (SATA 3.0) 1x M.2 2230
	USB	2x USB 2.0		
	SATA	1x SATA 3.0		
	GPIO	/	1x 8bit GPIO, 4in/4out	/
Power	Power Type	12~24V DC in, 2P		
Environmental	Op.temp/ Humidity	-20℃ ~ 60℃ (SSD) , 0℃ ~ 40℃ (HDD) , 60℃ 95%RH (SSD)		
	Storage.temp/ Humidity	-40℃ ~ 60℃, 60℃ 95%RH, Non-Condensing		
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation		
	Sine Vibration	5~500Hz, 2G Non-Operation		
	Shock	Operation: 10G@11ms, Non-Operation:20G@11ms		
Mechanical	Mounting	Default: Desk-Mount, Wall-Moun		
	Dimension	245 x 153 x 58 mm		
Certification	Safety Certification	CCC, CE, FCC, IC, UKCA	CCC	CCC, CE, FCC, IC, UKCA
Sales Mode		CIS-RJ19-LW01	CIS-R15G-LW01 CIS-R35G-LW01 CIS-R65G-LW01 CIS-R55G-LW01 CIS-R95G-LW01	CIS-R412-LW01



Development Number		CIS-XSKL-LW01
System	CPU	Intel® 6th/7th/8th/9th, TDP up to 65W
	Chipset	Intel® Q170 Chipset
	Memory	2x DDR4 SO-DIMM, Up to 32GB
	OS	Win 7-32/64bit, Win 10-64bit; Linux (Win 7 OS only for Intel® 6th Sky Lake)
	Watchdog	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min
External I/O	Interface	4x RJ45: 1x Intel® I219-LM 3x Intel® I210-AT
	Display	1x HDMI 1.4, 1x DP 1.2, 1x VGA
	Audio	1x Line-out, 1x MIC, optional
	COM	4x COM: COM 1 ~ 2 (RS232/422/485) TX/RX, 3KV Isolation line COM 3 ~ 4 (RS232/422/485)
	USB	6x USB 3.0 2x USB 2.0
	GPIO	1x 16bit GPIO, 8in/8out
	Botton	1x Power Button w/LED
	OS Recovery	1x OS Recovery
	LED	1x HDD LED, 1x COM1 TX1, 1x COM1 RX1, 1x COM2 TX2, 1x COM2 RX2, 1x Wi-Fi, 1x 4G, 1x Defined detectable signal
	Remote SW	1x Remote ON-OFF
Internal I/O	Expansion	1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2230 1x M.2 3042/3052
	USB	1x USB 2.0 Type-A
	COM	2x RS232
	SATA	2x SATA 3.0
	FAN	2x System Fan
Expanable Card	2 Slots Card	1x PCIe x16, 1x PCIe x4 or 1x PCIe x16, 1x PCI
	3 Slots Card	1x PCIe x16, 2x PCI or 1x PCIe x16, 2x PCIe x4 or 1x PCIe x16, 1x PCIe x4, 1x PCI
	4 Slots Card	1x PCIe x16, 1x PCIe x4, 2x PCI
Power	Power Type	19~24V DC in, 4Pin
Environmental	Op.temp/ Humidity	45/65W CPU, -10°C ~ 40°C (SSD) 35W CPU, -10°C ~ 50°C (SSD) 0°C ~ 40°C (HDD) 50°C 95%RH (35W CPU SSD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing
	Random Vibration	5~500Hz, 1Grms (HDD) Operation 5~500Hz, 2Grms (SSD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms, Non-Operation: 20G@11ms
Mechanical	Mounting	Desk-Mount, Wall-Mount
	Dimension	229 x 202 x 82mm, Basic 229 x 202 x 134mm, 2 Slots 229 x 202 x 156mm, 3 Slots 229 x 202 x 174mm, 4 Slots
Certification	Safety Certification	CCC, CE, FCC, IC, UKCA
Sales Mode		CIS-XQ17-LW01 CIS-XQ17-LW02 CIS-XQ17-LW03 CIS-XQ17-LW04



Development Number		CIS-XADL-LW01
System	CPU	Intel® 12th/13th/14th, TDP up to 65W
	Chipset	Intel® Q670 Chipset
	Memory	2x DDR5 SO-DIMM, Up to 96GB
	OS	Win 10-64bit; Linux
	Watchdog	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min
External I/O	Interface	6x RJ45: 1x Intel® I219-V 5x Intel® I210-AT
	Display	1x HDMI 1.4, 1 x DP 1.2, 1x VGA
	Audio	1x Line-out, 1x Mic-in, optional
	COM	6x COM: COM 1 ~ 2 (RS232/422/485) , BIOS adjust TX/RX Isolation Level: 2KV DC/AC; COM 3 ~ 6 (RS232 TX RX GND)
	USB	8x USB 3.2 Gen2
	DIO	16Bit Isolated DIO; 8x Di, 8x DO Isolation Level: DI/DO: 2KV DC/AC; Voltage range: 18~36V Drive Capability: ≤350mA; Response frequency: ≤1KHz
	Botton	1x Power Button w/LED 1x Clear CMOS Button
	OS Recovery	1x OS Recovery
	LED	1x HDD LED, 1x COM1 TX1, 1x COM1 RX1, 1x COM2 TX2, 1x COM2 RX2, 1x Wi-Fi, 1x 4G, 1x Defined detectable signal
	Remote SW	1x Remote ON-OFF
Internal I/O	Expansion	1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2280 slot for SSD (SATA3.0+Nvme) 1x M.2 2280 slot for SSD (Only Nvme) Default 1x M.2 3042/3052 Double NVME support Raid 0,1
	USB	2x USB 2.0 Type-A
	SATA	3x SATA 3.0, 3x SATA Power, Raid 0, 1, 5 optional
	FAN	1x System Fan
Expanable Card	2 Slots Card	EB.RXBX.2PCI: 2x PCI EB.RXBX.2CEI: 1x PCI + 1x PCIe x16 EB.RXBX.2PEI: 1x PCIe x16 + 1x PCIe x4
	3 Slots Card	EB.RXBX.3PCI: 1x PCIe x16 + 1x PCIe x4 + 1x PCI EB.RXBX.3PEI: 1x PCIe x16+1x PCIe x4 + 1x PCIe x1 EB.RXBX.3CEI: 2xPCI+1x PCIe x16
	4 Slots Card	EB.RXBX.4CEI: 2x PCI+1x PCIe x16 + 1x PCIe x4
Power	Power Type	Fanless: 12V~24V, 7A~3.5A; Faned: 12V~24V, 12A~6.5A; Voltage floating: Low: 12V~5%, High24V +20%
	Interface	4Pin Phenix
Environmental	Op.temp/ Humidity	[Fanless Operating Temp] 35W CPU, -10°C ~ 45°C (SSD), With 0.7 m/s air flow [Fan Operating Temp] 35W CPU, -10°C ~ 60°C (SSD), With 0.7 m/s air flow 45/65W CPU, -10°C ~ 55°C (SSD), With 0.7 m/s air flow [Storage Temp] 50°C 95%RH (35W CPU SSD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing
	Random Vibration	5~500Hz, 1Grms (HDD) Operation 5~500Hz, 2Grms (SSD) Operation
	Sine Vibraion	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms, Non-Operation: 20G@11ms
Mechanical	Mounting	Desk-Mount, Wall-Mount
	Dimension	229 x 202 x 82mm, Basic 229 x 202 x 156mm, 3 Slots 229 x 202 x 134mm, 2 Slots 229 x 202 x 174mm, 4 Slots
Certification	Safety Certification	CCC
Sales Mode		CIS-XQ67-LW01 CIS-XQ67-LW03 CIS-XQ67-LW02 CIS-XQ67-LW04



Development Number		CIS-XADL-LW01-H
System	CPU	Intel® 12th/13th/14th, TDP up to 65W
	Chipset	Intel® Q670 Chipset
	Memory	2x DDR5 SO-DIMM, Up to 96GB
	OS	Win 10/11 64bit; Linux
	Watchdog	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min
External I/O	Interface	6x RJ45: 1x Intel® I219-V 5x Intel® I210-AT
	Display	1x HDMI 1.4, 1x DP 1.2, 1x VGA
	Audio	1x Line-out, 1x MIC, optional
	COM	6x COM: COM 1 ~ 2 (RS232/422/485), TX/RX Isolation Level: 2KVDC/AC COM 3 ~ 6 (RS232 TX RX GND)
	USB	8x USB 3.2
	GPIO	16Bit Isolated DIO; 8x DI, 8x DO Isolation Level: DI/DO: 2KV DC/AC; Voltage range: 18~36V Drive Capability: ≤350mA; Response frequency: ≤1KHz
	Botton	1x Power button w/LED 1x Clear CMOS Button 1x OS Recovery Button
	OS Recovery	1 x OS Recovery
	LED	1x HDD LED, 1x COM1 TX1, 1x COM1 RX1, 1x COM2 TX2, 1x COM2 RX2, 1x Defined detectable signal
	Remote SW	1x Remote ON-OFF
Internal I/O	Expansion	1x Mini-PCIe 1x M.2 2280 (SATA 3.0 or NVME) 1x M.2 2230 (NVME) 1x M.2 3042/3052 Double NVME support Raid 0,1
	USB	2x USB 2.0 Type-A
	SATA	3x SATA 3.0, 3x SATA Power, support Raid 0, 1, 5 optional
	FAN	CPU Fan#1; 1x4 pin support Smart fan System PWM Control
	SIM	1x standred SIM Card Slot, support 4G/5G
Expanable Card	4 Slots Card	EB.RXBX.4PE1: 2x PCIe x4+2x PCIe x16 (1x16 or 2x8)
Power	Power Type	Motherboard power supply : Fanless: 12V~24V, 7A~3.5A With Fan: 12V~24V, 12A~6.5A Voltage floating: Low: 12V~5%, High: 24V+20% GPU power supply: DC-IN: 24V ±10% floating RTX 40series, suggest use 24V 25A power supply
	Interface	4Pin Phenix
Environmental	Op.temp/ Humidity	35W,CPU single 450W GPU With 0.7 m/s air flow -10 C ~ 45 C 65W,CPU single 450W GPU With 0.7 m/s air flow -10 C ~ 40 C 50 C 95%RH (35W CPU SSD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing
	Random Vibration	5~500Hz, 1Grms (HDD) Operation 5~500Hz, 2Grms (SSD) Operation
	Sine Vibraion	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms, Non-Operation: 20G@11ms
Mechanical	Mounting	Desk-Mount) , Wall-Mount)
	Dimension	390 x 296 x 202 mm
Certification	Safety Certification	CCC
Sales Mode		FANLESS: CIS-XQ67-LW01-AI With FAN: CIS-XQ67-LW01-AI

AI BOX Industrial Expandable BOX PC



CIS-XADL-LW01-H

Expandable and modular, ready for productivity.

The whole machine is made of SGCC environmentally friendly steel with excellent corrosion resistance, which is capable of withstanding harsh working environments. Multiple air outlets are matched with server-level fans to create an efficient heat dissipation system with extremely strong scalability.

The family-style basalt gray color scheme and the dust filter that does not need to be disassembled make it easy to replace, clean, and maintain. The modular assembly uses anti-drop screws, and the specially designed integrated wave-pattern heat dissipation structure is ready for full-load operation.





Development Number		CIS-HRLS-LW01	CIS-HRLU-LW01
System	CPU	Intel® 12&13th i3/i5/i7/Core® CPU i3-12100/i5-12400/i7-12700/i3-13100/i5-13400/i7-13700	Intel® 13th i3/i5/i7/Core® CPU i3-1315U/i5-1335U/i7-1355U i5-13420H/i7-13620H
	Chipset	2x DDR5 SO-DIMM, Up to 64 GB	
	OS	Windows 10, Windows 11, Linux	
	Watchdog	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
External I/O	Interface	4x RJ45: 4x Intel® I210-AT, PoE Option	
	Display	1x HDMI 1.4	
	COM	2x COM : 1x RS485+1x RS232, TX/RX 3KV isolation, 2x3 Phoenix	
	USB	4x USB 3.1 (Gen1)	
	DIO	8Bit Isolated DIO; 8x DI, 8x DO Isolation Level: DI/DO: 2KV DC/AC; Voltage range: High level: 18~36V, Low level: 0~5V Drive Capability: ≤350mA Response frequency: ≤1KHz	
	Micro-SD	1x Mirco-SD Card	
	LED	1x HDD LED, 1x Power LED	
	OS Recovery	1x OS Recovery	
Internal I/O	Expansion	1x M.2 2280 slot (SATA/NVMe) 1x M.2 3052 slot (USB3.0 for 5G) 1x M.2 2230 slot (PCIe/USB2.0 for WIFI)	
	RTC	1x RTC Socket	
	SATA	1x SATA 3.0, SATA Power	
	SYS Fan	1x 4pin SYS Fan	
Power	Power Type	24V DC(-20%~+20%) UPS Build-In, 3S (Option)	
Environmental	Op.temp/ Humidity	-10℃ ~ 60℃ / ~40℃~ 85℃	
	Humidity	5% ~ 95%, Non-condensing	
	Random Vibration	5~500Hz, 1Grms Operation	
Mechanical	Sine Vibration	5~500Hz, 2G Non-Operation	
	Mounting	Desk-Mount, Wall-Mount	
Mechanical	Dimension	225 x 160 x 70mm	
Certification	Safety Certification	CE/FCC ClassA	
Sales Mode		CIS-HH61-LW01	CIS-H15U-LW01, CIS-H35U-LW01, CIS-H55U-LW01

Expansion Card

Expand LAN+DIO+COM+CAN CIB-FLAN-NB01	LAN	2x RJ45 Intel® I210-AT	Expand Light source module CIB-FLSC-NB01	Light Source Control	4x PWM light source control output, support external hard trigger, maximum current of each channel 1A
	DIO	16Bit Isolated DIO; 8x DI, 8x DO Isolation Level: DI/DO: 2KVDC/AC			
	COM	4x RS485, 2x RS232 TX/RX 3KV Isolation Level	Expand LAN+DIO CIB-FCOM-NB01	DI/DO COM M.2	1x 16pin isolated DIO, 8in/8out 4x RS485+2x RS232, TX/RX 3KV isolation 1x M.2 2280
	CAN	2x CAN 2.0b			

Here, take a look on **Book-Shapen Industrial PC**.

Basic



Extension Modules-1



Extension Modules-2



Extension Modules-3







Development Number		CIS-RK58-ST01	CIS-RK39-ST01
System	CPU	RK3588, 8 cores CPU, 4 cores Cortex-A76, 4 cores Cortex-A55 NEON, Highest frequency 2.4GHz	RK3399, 6 cores CPU: 2 cores Cortex-A72 (big core) , 4 cores Cortex-A53 (small core) , Highest frequency 1.8GHz
	Memory	LPDDR4 4GB (Default 4GB, 8GB/16GB optional)	LPDDR4 4GB, Max up to 4G
	eMMC	eMMC 32GB (16GB ~ 128GB optional)	eMMC 32GB
	Graphic	ARM Mali-G610 MP4 Support OpenGL ES 1.1/2.0/3.2, OpenCL 2.2 Vulkan 1.2 Embedded 3D engine	Mali-T860 GPU Support OpenGL ES1.1/2.0/3.0/3.1, OpenCL
	NPU	Support 6T Computility	N/A
	OS	Android 12 / Ubuntu 20.04/ Tongxin	Android 8.1
External I/O	Interface	2x RJ45	
	Display output	1x HDMI, Max support 8K@60Hz	1x HDMI, Max support 4K@60Hz
	Display input	1x HDMI, Max support 4K@60Hz	N/A
	Audio	1x Audio (Line-out&Mic-in 2 in 1)	1x Line-out
	COM	2x RS232 TX.RX GND, DB9 1x RS485 in 12PIN	1x RS232 TX.RX GND, 1x RS485 in 8P wafer box
	USB	6x USB 3.0 1x Type C	1x USB3.0, 1 x USB 2.0 1x Type-C USB 2.0
	SIM	1x Nano SIM	1x Standard SIM
	TF	1x TF card	
Internal I/O	Expansion	1x M.2 2280 1x Mini-PCIe 1x M.2 PCIe x4 optional	1x Mini-PCIe
	COM	3x UART 4pin 2.0 wafer	3x UART 4pin 2.0 wafer, RS485/RS232, Multiplexed with front serial port 2x TTL
	WIFI&BT	1x WIFI, 802.11a/b/g/n/ac/ax, 2T2R, Dual-band 2.4G+5G 1x Bluetooth, BT5.0	1x Wi-Fi, 2.4G+5G, 802.11a/b/g/n/ac 1x Bluetooth, BT 4.2
	MIPI input	2x MIPI CSI 4K@60Hz	N/A
	MIPI output	2x MIPI DSI 4K@60Hz	1x MIPI,Max to 1080P@60Hz
	Video ooutput	1x LVDS, 1x eDP, 1x HDMI 2.1, 1x V-by-ONE Choose 1 from 4	1x LVDS, 1x eDP With MIPI output, 3 displays select 1 display
	USB	4x USB 2.0 4Pin 2.0mm Wafer	3x USB 2.0 4Pin 2.0mm Wafer
	Other	1x Remote control/buttons/indicator lights	
Power	Power Type	12V DC IN	
	Interface	DC JACK	1x2, 5.08 mm
Environmental	Op.temp/ Humidity	0℃ ~ 40℃, 40℃ 95%RH	
	Storage.temp/ Humidity	-20℃ ~ 60℃, 60℃ 95%RH, Non-Condensing	
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibraion	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Dimension	234 x 179.17 x 52mm	190 x 134 x 48mm
	Mounting	Desk-Mount, Wall-Mount	
Sales Mode		CIS-RK88-ST01	CIS-RK39-ST01

ARM Industrial Embedded BOX PC



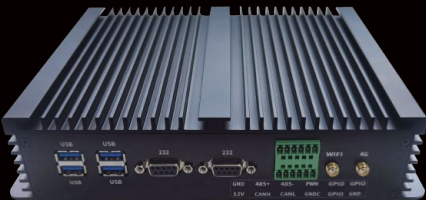
CIS-RK39-ST01

ARM architecture embedded fanless industrial computer, low power consumption design, 4K video decoding, equipped with 6-core CPU, up to 1.8 GHz main frequency

CIS-RK39-ST01



6 cores CPU
2 cores Cortex-A72
4 cores Cortex-A53



CIS-RK58-ST01

ARM architecture embedded fanless industrial computer, with 6T high-performance computing design, 8K video decoding, equipped with 8-core CPU, and the maximum main frequency is 2.4 GHz

CIS-RK58-ST01



8 cores CPU
4 cores Cortex-A76
4 cores Cortex-A55 NEON

The two ARM-based embedded fanless industrial computers are based on Rockchip platform high-performance processors with multi-core architecture, which combine higher performance with lower power consumption.

They have onboard LPDDR4 memory + eMMC Flash storage and are widely used in video advertising equipment, industrial IoT, deep learning processing, AI algorithms, autonomous driving and other application scenarios.

Industrial PC

Different Industrial Cases

Exclusively designed desktop and rack-mounted computers in different sizes of 2U/3U/4U, with diverse expansion interfaces and highly efficient heat dissipation capabilities, can be paired with Intel® Core™ series 6th generation and later CPUs to achieve a perfect combination of excellent performance and multiple expansion slots.

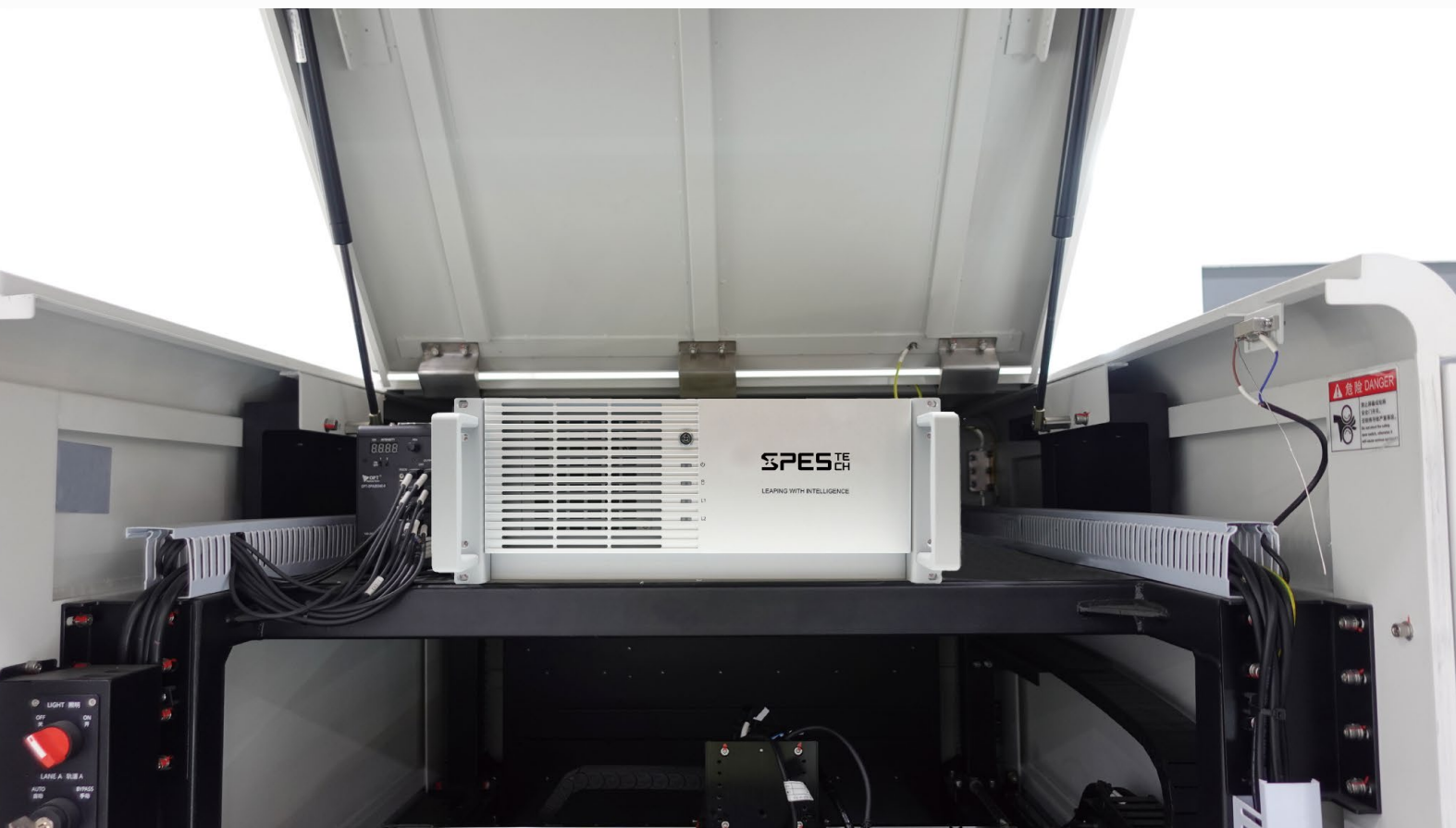
OS Recovery Function

SPES TECH's full range of industrial computers support the "Remote Power ON/OFF" and "OS Recovery" functions, which can meet a variety of usage scenarios and significantly reduce equipment use and maintenance costs.

Main Application Scenarios



Support Certification



2U Desk / Rack-mount



- It adopts the industry standard 2U desktop industrial chassis, supports high-performance CPUs such as Intel® 6th ~ /9th Generation Core™ i7/i5/i3/Pentium®/Celeron®, has more comprehensive hardware functions, supports VGA/HDMI/DP++ display, supports 1x PCIe x16 (Gen3) half-height expansion slot, has 4x USB 3.2, 4x USB 2.0, 2x Intel® LAN, 4x COM, supports 2.5" hard disk (SATA 3.0 interface), 8-bit programmable GPIO, and has hardware TPM module/USB Type-A dongle interface and other security devices.
- The structure uses hand-tightened screws, tool-free maintenance, and replaceable dust screen. It not only has excellent performance but also complete functions, which can meet most industrial application scenarios.

3U Desk-mount (standard / Prolong)



- Designed to meet better performance needs and more extensive expansion requirements, it can be paired with high-performance CPUs such as Intel® 6th-13th Generation Core™ i7/i5/i3/Pentium®/Celeron®.
- It can support 4~7 slots PCIe/PCI expansion interface, with ample internal space, and can add multiple graphics cards, mechanical hard disks, expansion cards, etc. It has powerful heat dissipation function, supports 0 C~40 C (HDD) continuous and stable operation, and the motherboard also has rich IO interfaces. Comprehensive safety measures, equipped with Case open / USB dongle / TPM module / OS Recovery and other functions. It is installed with hand-screwed screws, tool-free maintenance, and the dust net can be easily replaced. Compact, standard, and extended types are optional.

4U Desk / Rack-mount



- 4U can give full play to the advantages of high-performance CPU. The large-size 4U chassis provides sufficient expansion space and efficient heat dissipation equipment for the motherboard.
- After debugging, it can adapt to the turbo frequency mode, with rich front and rear panel interfaces and powerful expansion capabilities. It has 7 PCIe/PCI expansion card slots and can be used with Intel® 6th-13th Generation Core™ i7/i5/i3/Pentium®/Celeron® and other CPUs, and can fully release its performance. It can support up to 4 3.5" hard drives (SATA interface) and has comprehensive security equipment (TPM/dongle/Case open, etc.), which can fully meet the needs of industrial application scenarios that require a large number of access devices or a large number of computing units.

*Each product category has different configurations. The displayed content is for illustration only. The actual product effects (including but not limited to appearance, color, size) and screen display content (background, illustrations, decorative elements) may differ slightly. Please refer to the actual product for details.

NEW 4U desk-mount

H110

Q170

Q470

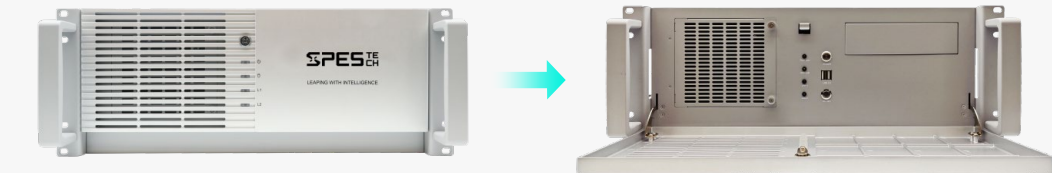
Q670

W680

Appearance 1



Appearance 2



*The new 4U has two appearance versions, one of which is a version with a front panel. The front panel is made of aluminum alloy die-casting and can be opened with a safety lock and a rotating anklet. The appearance is as shown above.

Characteristic

Intel® 6th-13th Gen Core™ i7/i5/i3/Pentium®/Celeron® etc.
The body has extremely high corrosion resistance and stability, greatly improving product reliability
Using hand-screws, replaceable dust screen, tool-free maintenance
Supports 5.25" optical drive expansion
Can support up to 5-slot 20T 3.5" HDD expansion, 100T HDD
Make full use of chassis space and support 3090 series dual-slot large-size graphics cards

The front panel uses Power LED / HDD LED / LAN LED to easily understand the operating status
Supports the source control-specific OS Recovery backup and restore function, which can effectively reduce daily maintenance costs
The rear of the chassis can support up to 7 x D-Sub9 embedded interface expansion and 7 expansion slots
Can support up to 1250W ATX power supply, and is compatible with redundant power supply
Supports REMOTE and LPT interfaces, which is more suitable for industrial application environments
Suitable for high computing power demand scenarios such as laser welding, AOI detection, OLED detection, etc.

*Each product category has different configurations. The displayed content is for illustration only. The actual product effects (including but not limited to appearance, color, size) and screen display content (background, illustrations, decorative elements) may differ slightly. Please refer to the actual product for details.

Industrial Professional PC

*Only purchase chip products from relevant manufacturers, and the adaptation process is completed independently by source control.

Machine Vision Industrial PC

- A dedicated machine for the visual industry based on the Intel® Comet Lake H410 platform
- The product supports Intel® 10th CPU and has 6 Gigabit Intel® network ports, 4 of which support PoE
- The USB interface has a locking function to meet the connection requirements of smart cameras
- At the same time, the product has 8in/8out isolated GPIO function
- With a 19-36V wide voltage design, it meets the needs of different on-site environments
- Supports expandable PCIe x16 slots and light source control card interfaces to increase scalability

CIS-IH41-HR01



ZHAOXIN Platform Industrial PC

Powered by 兆芯

- A dedicated industry machine using the Zhaoxin platform, using the KX-6780A platform
- Supports UOS Tongxin system, supports up to 32G memory, 2 storage hard disk slots
- Supports up to 12x COM, 18x USB, to meet the needs of multiple serial ports
- Also supports PCIe x8 interface, expandable graphics card and other devices
- The whole machine adopts a quick-release design with hand-screws, which makes update maintenance and daily maintenance more convenient

CIS-Z60E-FC01



PHYTIUM Platform Industrial PC

Powered by 飞腾

- A dedicated industry machine using the Feiteng platform
- Using the Feiteng D2000 platform, supporting domestic systems such as Kylin, UOS Tongxin, and Hongqi
- Supports up to 32G memory, up to 10x COM, 14x USB
- Supports PCIe x16 interface, expandable graphics cards and other devices
- The whole machine adopts a quick-release design with hand-screws, which makes update maintenance and daily care more convenient

CIS-CD20-FAGD



SPES TECH has joined the Phytium ecosystem to jointly build a prosperous, and independent information industry ecosystem: <https://www.phytium.com.cn/partner/>



Development Number		CIS-BSKL-FIS1	CIS-BH61-FIS1
System	CPU	Intel® 6th/7th/8th/9th, TDP up to 65W	Intel® 12th/13th/14th, TDP up to 95W
	Chipset	Intel® H110 Chipset	Intel® H610 Chipset
	Memory	2x DDR4 SO-DIMM, Max to 32GB	2x DDR5 SO-DIMM, Max to 96GB
	OS	Win 7-32/64bit; Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen3)	1x PCIe x16 (Gen4)
Front I/O	Button	1x Power Button w/Power LED	
	LED	1x HDD LED	
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V 1x Intel® I210-AT	
	Display	1x VGA, 1x HDMI 1.4, 1x DVI	1x DP 1.2, 1x HDMI 1.4, 1x VGA
	Audio	1x Line-in, 1x Line-out, 1x Mic-in, optional	1x Line-out, 1x Mic-in, optional
	COM	2x RS232/422/485	
	USB	4x USB 3.0 4x USB 2.0	4x USB 3.2 2x USB 2.0
Internal I/O	Expansion Slot	1x Mini-PCIe (USB 2.0) 1x M.2 2280 (SATA3)	1x Mini-PCIe (PCIe x1 & USB 2.0) 1x M.2 2280 (SATA & PCIe4 Gen3 NVMe) 1x M.2 2230 for Wi-Fi (PCIe x1 & USB 2.0)
	COM	1x RS232/422/485 4x RS232	4x RS232
	USB	1x USB 2.0 Type-A	1x USB Type-A 2x USB 2.0
	SATA	2x SATA 3.0	
	GPIO	1x 8bit GPIO, 4in/4out	
	FAN	1x CPU Fan 1x System Fan	
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	Flex ATX	
	Interface		
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	250 x 265 x 88mm	
	Mounting	Desk-Mount)	
Certification	Safety Certification	CCC	
Sales Model		CIS-BH11-FIS1	CIS-BH61-FIS1



Development Number		CIS-BSKL-FAR1
System	CPU	Intel® 6th/7th/8th/9th, TDP up to 95W
	Chipset	Intel® H110 Chipset
	Memory	2x DDR4 U-DIMM, Max to 32GB
	OS	Win 7-32/64bit; Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min
Expansion	Slot	1x PCIe x16 (Gen3) 1x PCIe x4 (Gen2) 5x PCI
Front I/O	Button	1x Power Button, 1x Reset Button 1x KB Lock button, 1x KB Lock LED, 1x Power LED, 1x HDD LED
	LED	2x USB 2.0
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V 1x Intel® I210-AT
	Display	1x VGA, 1x HDMI 1.4, 1x DVI
	Audio	1x Line-in, 1x Line-out, 1x Mic-in, optional
	COM	1x RS232/422/485
	USB	4x USB 3.2 (Gen1) 2x USB 2.0
Internal I/O	Expansion Slot	1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x RS232/422/485 4x RS232
	COM	
	USB	1x USB 2.0 Type-A 2x USB 2.0
	SATA	4x SATA 3.0
	GPIO	1x 16 bit GPIO, 8in/8out
	FAN	1x CPU Fan 2x System Fan
	OS Recovery	1x OS Recovery
	Front Panel	1x Front Panel
Power	Power Type	350W / ATX Power
	Interface	24Pin + 4Pin ATX Power
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH (HDD)
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation 5~500Hz, 1Grms (HDD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms, Non-operation: 20G@11ms
Mechanical	Demension	483.84 x 426.4 x 88.4mm
	Mounting	Rack-Mount
Certification	Safety Certification	CCC, CE, FCC, IC, UKCA
Sales Model		CIS-BH11-FAR1



Development Number		CIS-BSKL-FAR1	CIS-BCML-FAR1
System	CPU	Intel® 6th/7th/8th/9th, TDP up to 95W	Intel® 10th/11th, TDP up to 125W
	Chipset	Intel® Q170 Chipset	Intel® Q470 Chipset
	Memory	4x DDR4 U-DIMM, Max to 128GB	4x DDR4 U-DIMM, Max to 128GB
	OS	Win 7-32/64bit; Win 10-64bit; Linux	Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Expansion	Slot	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) 3x PCI	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) 2x PCIe x1 (Gen1) 1x PCI
Front I/O	Button	1x Power Button, 1x Reset Button 1x KB Lock button, 1x KB Lock LED, 1x Power LED, 1x HDD LED	
	LED	2x USB 2.0	
Rear I/O	Interface	4x RJ45: 3x Intel® I226-V 1x Intel® I219-V	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1x Line-out, 1x Mic-in, optional	
	COM	1x RS232/422/485	
	USB	4x USB 3.2 (Gen1)	4x USB 3.2 (Gen2) , 2x USB 3.2 (Gen1) 2x USB 2.0
Internal I/O	Expansion Slot	1x Mini-PCIe (USB/PCIe) 1x M.2 2280 slot support SATA SSD only	1x Mini-PCIe 1x M.2 2280 slot, support SATA/PCIe x4 NVMe SSD
	COM	1x RS232/422/485 4x RS232	
	USB	1x USB 2.0 Type-A, 4x USB 2.0 2x USB 3.2 (Gen 1)	1x USB 2.0 Type-A, 2x USB 2.0 2x USB 3.2 (Gen 1)
	SATA	5x SATA 3.0, 支持 Raid 0, 1, 5, 10	4x SATA 3.0, support Raid 0, 1, 5, 10
	GPIO	1x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 3x System Fan	1x CPU Fan 2x System Fan
	OS Recovery	1x OS Recovery	
Power	Front Panel	350W / ATX Power	
	Power Type	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	483.84 x 426.4 x 88.4mm	
	Mounting	上架式 (Rack-Mount)	
Certification	Safety Certification	CCC	
Sales Model		CIS-BQ17-FAR1	CIS-BQ47-FAR1



Development Number		CIS-BADL-FAR1	
System	CPU	Intel® 12th/13th, TDP up to 125W	
	Chipset	Intel® Q670 Chipset	Intel® H610 Chipset
	Memory	4x DDR4 U-DIMM, Max to 128GB	2x DDR4 U-DIMM, Max to 64GB
	OS	Win 10-64bit; Linux	Win 10/11-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Expansion	Slot	2x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 3x PCIe x4 (Gen4) 1x PCIe x1 (Gen3) 1x PCI	1x PCIe x16 (Gen4) 1x PCIe x4 (Gen3) 1x PCIe x2 (Gen3) 4x PCI
Front I/O	Button	1x Power Button, 1x Reset Button 1x KB Lock button, 1x KB Lock LED, 1x Power LED, 1x HDD LED	
	LED	2 x USB 2.0	
Rear I/O	Interface	4x RJ45: 3x Intel® I226-V 1x Intel® I219-V	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1x Line-out, 1x Mic-in, optional	
	COM	1x RS232/422/485	1x RS232/422/485 1x RS232
	USB	2x USB 3.2 (Gen2) 2x USB 3.2 (Gen1)	4x USB 3.2 (Gen1) 2x USB 2.0
Internal I/O	Expansion Slot	1x M.2 2280 slot, NVMe PCIe x4 (Gen4) SSD	1x M.2 2280 slot (SATA,/NVMe PCIe x2) (Born Option switch NVMe x2, PCIe x2 from PCIe x4 solt)
	COM	1x RS232/422/485 4x RS232	4x RS232
	USB	1x USB 3.2 Type-A, 2x USB 2.0 2x USB 3.2 (Gen 1) , 2x USB 3.2 (Gen 2)	2x USB 2.0 Type-A 2x USB 2.0
	SATA	4x SATA 3.0, support Raid 0, 1, 5, 10	
	GPIO	1x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 3x System Fan	
	OS Recovery	1x OS Recovery	
Power	Front Panel	350W / ATX Power	
	Power Type	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	483.84 x 426.4 x 88.4mm	
	Mounting	上架式 (Rack-Mount)	
Certification	Safety Certification	CCC	
Sales Model		CIS-BQ67-FAR1	CIS-BH61-FAR1



Development Number		CIS-CH11-FALC
System	CPU	Intel® 6th/7th/8th/9th, TDP up to 65W
	Chipset	Intel® H110 Chipset
	Memory	2x DDR4 U-DIMM, Max to 32GB
	OS	Win 7-32/64bit; Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min
Expansion	Slot	1x PCIe x16 (Gen3) 1x PCIe x4 (Gen2) 2x PCI
Front I/O	Button	1x Power Button w/LED
	LED	1x HDD LED
	USB	2x USB 2.0
	OS Recovery	1x OS Recovery
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V 1x Intel® I210-AT
	Display	1x VGA, 1x HDMI 1.4, 1x DVI
	Audio	1x Line-in, 1x Line-out, 1x Mic-in, optional
	COM	1x RS232/422/485
	USB	4x USB 3.2 (Gen1) 4x USB 2.0
Internal I/O	Expansion Slot	1x Mini-PCIe (USB2.0) 1x M.2 2280 (SATA3, with SATA1)
	COM	1x RS232/422/485 4x RS232
	USB	1x USB 2.0 Type-A
	SATA	4x SATA 3.0
	GPIO	1x 16bit GPIO, 8in/8out
	FAN	1x CPU Fan 2x System Fan
	OS Recovery	1x OS Recovery
	Front Panel	1x Front Panel
Power	Power Type	250W / 350W / 450W Flex ATX Power
	Interface	24Pin + 8Pin ATX Power
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms
Mechanical	Demension	260 x 300 x 135mm
	Mounting	Desk-Mount
Certification	Safety Certification	CCC
Sales Model		CIS-CH11-FALC



Development Number		CIS-CCML-FMC1	CIS-CADL-FMC1
System	CPU	Intel® 10th/11th, TDP up to 65W	Intel® 12th/13th, TDP up to 65W
	Chipset	Intel® Q470 Chipset	Intel® Q670 Chipset
	Memory	4x DDR4 U-DIMM, Max to 128GB	
	OS	Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3)	
Front I/O	Button	1x Power Button w/LED	
	LED	1x HDD LED	
	USB	2x USB 2.0	
	OS Recovery	1x OS Recovery	
Rear I/O	Interface	4x RJ45: 1x Intel® I219-V 3x Intel® I210-AT	4x RJ45: 1x Intel® I219-V 3x Intel® I226-V
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1x Line-out, 1x Mic-in, optional	
	COM	1x RS232/422/485	
	USB	4x USB 3.2 (Gen1)	4x USB 3.2 (Gen2)
Internal I/O	Expansion Slot	1x Mini-PCIe (USB/PCIE) 1x M.2 2280 slot, support SATA/NVME PCIE x4 SSD	1x Mini-PCIe (USB/PCIE) 1x M.2 2230 for Wi-Fi6 1x M.2 3052 (PCIE/USB) for 5G 1x M.2 2280 M Key for SSD (SATA or PCIEx4 NVMe)
	COM	1 x RS232/422/485 4 x RS232	
	USB	1x USB 3.2 (Gen1) Type-A 4x USB 3.2 (Gen1)	1x USB 3.2 (Gen1) Type-A 2x USB 3.2 (Gen1) , 2x USB 3.2 (Gen2)
	SATA	4x SATA 3.0,support Raid 0, 1, 5, 10	
	GPIO	1x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 2x System Fan	
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	250W / 350W / 450W Flex ATX Power	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	260 x 300 x 135mm	
	Mounting	Desk-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-CQ47-FMC1	CIS-CQ67-FMC1



Development Number		CIS-CSKL-FAS1	
System	CPU	Intel® 6th/7th, TDP up to 95W	
	Chipset	Intel® H110 Chipset	Intel® Q170 Chipset
	Memory	2x DDR4 U-DIMM, Max to 32GB	4x DDR4 U-DIMM, Max to 64GB
	OS	Win 7-32/64bit; Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen3) 1x PCIe x4 (Gen2) 5x PCI	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) 3x PCI
Front I/O	Button	1x Power Button w/LED	
	LED	1x HDD LED	
	USB	2x USB 2.0	
	OS Recovery	1x OS Recovery	
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V 1x Intel® I210-AT	4x RJ45: 1x Intel® I219-V 3x Intel® I210-AT
	Display	1x VGA, 1x HDMI 1.4, 1x DVI	1x DP 1.2, 1x HDMI 1.4, 1x VGA
	Audio	1x Line-in, 1x Line-out, 1x Mic-in, optional	1x Line-out, 1x Mic-in, optional
	COM	1x RS232/422/485	
	USB	4x USB 3.2 (Gen1) 2x USB 2.0	4x USB 3.2 (Gen1)
	PS/2	1x PS/2 (mini-DIN-6)	/
Internal I/O	Expansion Slot	1x Mini-PCIe (USB2.0) 1x M.2 2280 slot (with SATA1)	1x Mini-PCIe (PCIe x1 & USB 2.0) 1x M.2 2280 (SATA3)
	COM	1x RS232/422/485 4x RS232	
	USB	1x USB 2.0 Type-A	1x USB 2.0 Type-A 2x USB 3.2 (Gen1)
	SATA	4x SATA 3.0	5x SATA 3.0, supprt Raid 0, 1, 5, 10
	GPIO	1 x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 3x System Fan
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	250W / 350W / 450W Flex ATX Power	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	Standred 330 x 300 x 135mm Prolong 330 x 340 x 135mm	
	Mounting	Desk-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-CH11-FAS1	CIS-CQ17-FAS1



Development Number		CIS-CCML-FAS1	CIS-CADL-FAS1
System	CPU	Intel® 10th/11th, TDP up to 125W	Intel® 12th/13th, TDP up to 125W
	Chipset	Intel® Q470 Chipset	Intel® Q670 Chipset
	Memory	4x DDR4 U-DIMM, Max to 128GB	
	OS	Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) , 2x PCIe x1 (Gen1) 1x PCI	2x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 3x PCIe x4 (Gen4) , 1x PCIe x4 (Gen3) 1x PCI
Front I/O	Button	1x Power Button w/LED	
	LED	1x HDD LED	
	USB	2x USB 2.0	
	OS Recovery	1x OS Recovery	
Rear I/O	Interface	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	4x RJ45: 1x Intel® I219-V 3x Intel® I210-AT
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1x Line-out, 1 x Mic-in, optional	
	COM	1x RS232/422/485	
	USB	4x USB 3.2 (Gen2) 2x USB 3.2 (Gen1) 2x USB 2.0	2x USB 3.2 (Gen2) 2x USB 3.2 (Gen1)
	PS/2	/	
Internal I/O	Expansion Slot	1x Mini-PCIe 1x M.2 2280 (SATA/NVMe)	1x Mini-PCIe (USB 2.0) 1x M.2 2230 1x M.2 3052 (PCIe/USB) 1x M.2 2280 (SATA/NVME)
	COM	1x RS232/422/485 4x RS232	
	USB	1x USB 2.0 Type-A 2x USB 3.1 (Gen1)	1x Vertical USB 3.2 (Gen1) Type-A 2x USB 3.2 (Gen1) , 2x USB 3.2 (Gen2)
	SATA	4x SATA 3.0, supprt Raid 0, 1, 5, 10	
	GPIO	1x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 3x System Fan
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	250W / 350W / 450W Flex ATX Power	
	Interface	24Pin + 8Pin ATX I2V Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	Standred 330 x 300 x 135mm Prolong 330 x 340 x 135mm	
	Mounting	Desk-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-CQ47-FAS1	CIS-CQ67-FAS1



Development Number		CIS-CADL-FAS1	
System	CPU	Intel® 12th/13th/14th, TDP up to 125W	
	Chipset	Intel® W680 Chipset	Intel® H610 Chipset
	Memory	4x DDR5 U-DIMM, Max to 192GB	2x DDR4 U-DIMM, Max to 64GB
	OS	Win 10-64bit; Linux	Win 10/11-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen5) 3x PCIe x4 (Gen4) , 1x PCIe x4 (Gen3) 2x PCI	1x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 1x PCIe x4 (Gen3) , 1x PCIe x2 (Gen3) 4x PCI
Front I/O	Button	1x Power Button w/LED	
	LED	1x HDD LED	
	USB	2x USB 2.0	
	OS Recovery	1x OS Recovery	
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V 1x Intel® I210-AT	
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1 x Line-out, 1 x Mic-in, optional	
	COM	1x RS232/422/485	1x RS232/422/485 1x RS232
	USB	2x USB 3.2 (Gen2) 6x USB 3.2 (Gen1)	4x USB 3.2 (Gen1) 2x USB 2.0
	PS/2	/	
Internal I/O	Expansion Slot	1x M.2 2280 (NVMe)	1x M.2 2280 (SATA/NVMe)
	COM	1x RS232/422/485 4 x RS232	4x RS232
	USB	2x USB 2.0 Type-A 4x USB 2.0 (Gen1)	2x Vertical USB 2.0 Type-A
	SATA	4x SATA 3.0, supprt Raid 0, 1, 5, 10	4x SATA 3.0
	GPIO	1x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 3x System Fan	
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	250W / 350W / 450W Flex ATX Power	
	Interface	24Pin + 8Pin ATX 12V Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	Standred 330 x 300 x 135mm	Prolong 330 x 340 x 135mm
	Mounting	Desk-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-CW68-FAS1	CIS-CH61-FAS1



Development Number		CIS-DSKL-FAS1	
System	CPU	Intel® 6th/7th/8th/9th, TDP up to 65W	
	Chipset	Intel® H110 Chipset	Intel® Q170 Chipset
	Memory	2x DDR4 U-DIMM, Max to 32GB	4x DDR4 U-DIMM, Max to 64GB
	OS	Win 7-32/64bit; Win 10-64bit; Linux	Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen3) 1x PCIe x4 (Gen2) 5x PCI	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) 3x PCI
Front I/O	Button	1x Power Button w/LED	
	LED	1x HDD LED	
	USB	2x USB 2.0	
	OS Recovery	1x OS Recovery	
Rear I/O	Interface	2x RJ45: 1x Intel® I219-V 1x Intel® I210-AT	4x RJ45: 1x Intel® I219-V 1x Intel® I210-AT
	Display	1x VGA, 1x HDMI 1.4, 1x DVI	1x DP 1.2, 1x HDMI 1.4, 1x VGA
	Audio	1x Line-in, 1x Line-out, 1x Mic-in, optional	1x Line-out, 1x Mic-in, optional
	COM	1x RS232/422/485	
	USB	4x USB 3.2 (Gen1) 2x USB 2.0	4x USB 3.2 (Gen1)
	PS/2	1x PS/2 (mini-DIN-6)	/
Internal I/O	Expansion Slot	1x Mini-PCIe 1x M.2 2280 (with SATA1)	1x Mini-PCIe (USB/PCIE) 1x M.2 2280 (SATA)
	COM	1x RS232/422/485 4x RS232	
	USB	1x USB 2.0 Type-A 2x USB 2.0	1x USB 2.0 Type-A 4x USB 2.0 2x USB 3.2 (Gen1)
	SATA	4x SATA 3.0	5x SATA 3.0, supprt Raid 0, 1, 5, 10
	GPIO	1x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 3x System Fan
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W / 650W / 850W Flex ATX Power	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	330 x 300 x 175mm	
	Mounting	Desk-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DH11-FAS1	CIS-DQ17-FAS1



Development Number		CIS-DCML-FAS1	CIS-DADL-FAS1
System	CPU	Intel® 10th/11th, TDP up to 65W	Intel® 12th/13th, TDP up to 65W
	Chipset	Intel® Q470 Chipset	Intel® Q670 Chipset
	Memory	4x DDR4 U-DIMM, Max to 128GB	
	OS	Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) , 2x PCIe x1 (Gen1) 1x PCI	2x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 3x PCIe x4 (Gen4) , 1x PCIe x1 (Gen3) 1x PCI
Front I/O	Button	1x Power Button w/LED	
	LED	1x HDD LED	
	USB	2x USB 2.0	
	OS Recovery	1x OS Recovery	
Rear I/O	Interface	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	4x RJ45: 1x Intel® I219-V 3x Intel® I226-V
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1x Line-out, 1 x Mic-in, optional	
	COM	1 x RS232/422/485	
	USB	4x USB 3.2 (Gen2) , 2x USB 3.2 (Gen1) 2x USB 2.0	2x USB 3.2 (Gen2) 2x USB 3.2 (Gen1)
	PS/2	/	
Internal I/O	Expansion Slot	1x Mini-PCIe 1x M.2 2280 (SATA/NVMe)	1x Mini-PCIe (USB) 1x M.2 2230 1x M.2 3052 (PCIe/USB) 1x M.2 2280 (SATA/NVMe)
	COM	1x RS232/422/485 4x RS232	
	USB	1x USB 2.0 Type-A 2x USB 2.0, 2x USB 3.1 (Gen1)	1x USB 3.2 (Gen1) Type-A, 2x USB 2.0 2x USB 3.2 (Gen1) , 2x USB 3.2 (Gen2)
	SATA	4x SATA 3.0, support Raid 0, 1, 5, 10	
	GPIO	1x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 3x System Fan
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W /650W /850W ATX Power	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	330 x 300 x 175mm	
	Mounting	Desk-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DQ47-FAS1	CIS-DQ67-FAS1



Development Number		CIS-DADL-FAS1	
System	CPU	Intel® 12th/13th, TDP up to 125W	Intel® 12th/13th/14th, TDP up to 125W
	Chipset	Intel® W680 Chipset	Intel® H610 Chipset
	Memory	4x DDR5 U-DIMM, Max to 128GB	2x DDR4 U-DIMM, Max to 64GB
	OS	Win 10-64bit; Linux	Win 10/11-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen5) 3x PCIe x4 (Gen4) , 1x PCIe x4 (Gen3) 2x PCI	1x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 1x PCIe x4 (Gen3) , 1x PCIe x2 (Gen3) 4x PCI
Front I/O	Button	1x Power Button w/LED	
	LED	1x HDD LED	
	USB	2x USB 2.0	
	OS Recovery	1x OS Recovery	
Rear I/O	Interface	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	
	Display	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Audio	1x Line-out, 1 x Mic-in, optional	
	COM	1x RS232/422/485	1x RS232/422/485 1x RS232
	USB	2x USB 3.2 (Gen2) 6x USB 3.2 (Gen1)	4x USB 3.2 (Gen1) 2x USB 2.0
	PS/2	/	
Internal I/O	Expansion Slot	1x M.2 2280 (NVMe)	1x M.2 2280 (SATA/NVMe)
	COM	1x RS232/422/485 4x RS232	4x RS232
	USB	2x USB 2.0 Type-A 2x USB 3.2 (Gen1) , 4x USB 2.0 (Gen1)	2x USB 2.0 Type-A 2x USB 2.0
	SATA	4x SATA 3.0, support Raid 0, 1, 5, 10	4x SATA 3.0
	GPIO	1x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 3x System Fan	
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W /650W /850W ATX Power	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	330 x 300 x 175mm	
	Mounting	Desk-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DW68-FAS1	CIS-DH61-FAS1

4U Rack-mount IPC



Leading the development of industrial automation
Applicable to all industrial use scenarios



Performance



Quality



Design

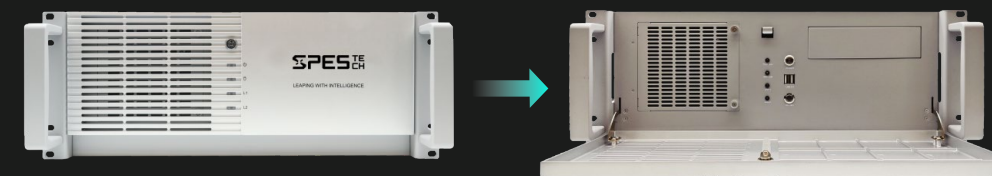


Humanized Design

Scan to learn more

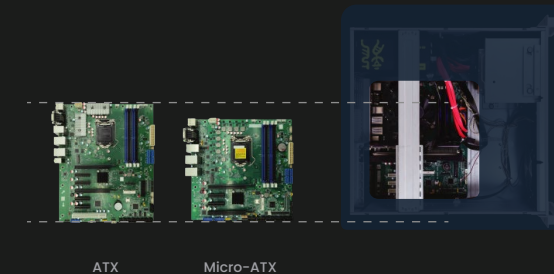
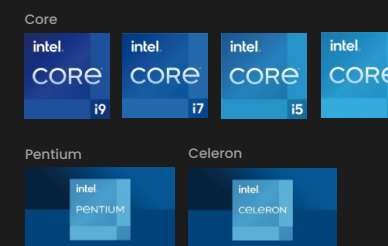


Reshaping the appearance



The front panel adopts lightweight design and aluminum alloy pressed one-piece molding process, which brings high strength and durability. It provides better security and reduces illegal operations. The functions of the **rotating hinge**¹ include connection and support. The body is made of SGCC environmentally friendly steel, with a powder coating film thickness of **68μm**,² strong corrosion resistance, beautiful visual appearance, and good electromagnetic shielding performance.

Powerful power, flexible configuration, and strong scalability

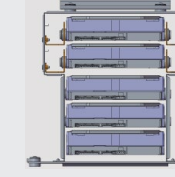


Covering three levels of processors, it has strong scalability, high versatility, and powerful computing power. The box is compatible with ATX/Micro ATX multi-specification industrial-grade motherboards.³

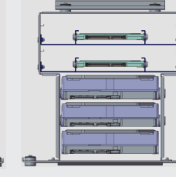
Standard ATX motherboard size: 30.5 x 24.4cm.

Micro-ATX motherboard sizes include: 24.4 x 24.4cm / 24.4 x 18.5cm / 24.4 x 22.5cm, etc.

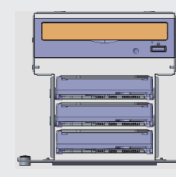
Flexible layout of multiple hard drives



2 x 3.5" 硬盘



2 x 2.5" 硬盘



1 x ODD 光驱

5x
3.5" mechanical HD

A 4U box computer fully loaded with mechanical hard disks, with industry-leading data throughput. The hard disk slot does not take up extra space, **with a maximum storage expansion of 100T**, supporting advanced storage application scenarios.⁴

Passed the reliability test of 3-axis 2G vibration, the upper 2x 3.5" hard disk can be converted into: 2x 2.5" hard disk or 1x ODD optical drive; supports multiple configuration changes to adapt to different scenarios.

¹ The style involved in the "rotating ankle" is the appearance version with a front panel bezel.

² The industry generally uses a paint film thickness of 70-150μm. Too thick or too thin a thickness will lead to a decrease in coating quality. Too thin a film is prone to cracking and peeling, resulting in the coating failing to play a protective role; too thick a film will increase the cost of the product and reduce production efficiency.

³ Intel® Core™/ Pentium®/Celeron® processor query address: <https://www.intel.cn/content/www/cn/zh/support/products/873/processors.html#122139>.

⁴ As shown in the 3D structure diagram, the lower 3 x 3.5" hard disk remains unchanged, and the upper part can be converted into a module, subject to the actual assembly situation.



Development Number		CIS-DSKL-FAR1	
System	CPU	Intel® 6th/7th/8th/9th, TDP up to 95W	
	Chipset	Intel® H110 Chipset	Intel® Q170 Chipset
	Memory	2x DDR4 U-DIMM, Max to 32GB	4x DDR4 U-DIMM, Max to 64GB
	OS	Win 7-32/64bit; Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen3) 1x PCIe x4 (Gen2) 5x PCI	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) 3x PCI
Front I/O	Button/LED	1x Power Button, 1x OS Recovery 1x Power LED, 1x HDD LED 2x LAN LED	
	USB	2x USB 2.0	
Rear I/O	OS Recovery	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	4x RJ45: 3x Intel® I226-V 1x Intel® I219-V
	Interface	1x VGA, 1x HDMI 1.4, 1x DVI	1x DP 1.2, 1x HDM 1.4, 1x VGA
	Display	1x Line-in, 1x Line-out, 1x Mic-in, optional	1x Line-out, 1x Mic-in, optional
	Audio	1x RS232/422/485	
	COM	4x USB 3.2 (Gen1) 2x USB 2.0	4x USB 3.2 (Gen1)
	USB	1x PS/2	/
Internal I/O	Expansion Slot	1x Mini-PCIe 1x M.2 2280 (with SATA1)	1x Mini-PCIe 1x M.2 2280 (SATA)
	COM	1x RS232/422/485 4x RS232	
	USB	1x USB 2.0 Type-A	1x USB 2.0 Type-A 2x USB 2.0 2x USB 3.2 (Gen1)
	SATA	4x SATA 3.0	5x SATA 3.0, support Raid 0, 1, 5, 10
	GPIO	1 x 16bit GPIO, 8in/8out	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 3x System Fan
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W / 650W / 850W /1250W ATX Power, Support Redundant Power System	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	No Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm	With Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm
	Mounting	Rack-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DH11-FAR1	CIS-DQ17-FAR1

* The above specifications marked with "optional" are not included by default. If configuration is required, please add the optional items.



Development Number		CIS-DSKL-FAR1-C	
System	CPU	Intel® 6th/7th/8th/9th, TDP up to 95W	
	Chipset	Intel® H110 Chipset	Intel® Q170 Chipset
	Memory	2x DDR4 U-DIMM, Max to 32GB	4x DDR4 U-DIMM, Max to 64GB
	OS	Win 7-32/64bit; Win 10-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen3) 1x PCIe x4 (Gen2) 5x PCI	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) 3x PCI
Front I/O	Button/LED	1x Power Button, 1x OS Recovery 1x Power LED, 1x HDD LED 2x LAN LED	
	USB	2x USB 2.0	
Rear I/O	OS Recovery	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	4x RJ45: 3x Intel® I210-AT 1x Intel® I219-V
	Interface	1x VGA, 1x HDMI 1.4, 1x DVI	1x DP 1.2, 1x HDM 1.4, 1x VGA
	Display	1x Line-in, 1x Line-out, 1x Mic-in, optional	1x Line-out, 1x Mic-in, optional
	Audio	1x RS232/422/485, optional, support 5V/12V power	
	COM	4x USB 3.2 (Gen1) 2x USB 2.0	4x USB 3.2 (Gen1)
	USB	1x PS/2	/
Internal I/O	Expansion Slot	1x M.2 2280 (with SATA1)	1x M.2 2280 (SATA)
	COM	1x RS232/422/485, optional, support 5V/12V power 4x RS232	
	USB	1x USB 2.0 Type-A 2x USB 2.0	1x USB 2.0 Type-A 4x USB 2.0 2x USB 3.2 (Gen1)
	SATA	3x SATA 3.0	5x SATA 3.0
	GPIO	1 x 16bit GPIO, 8in/8out, optional	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 2x System Fan, optional mount3
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W / 650W / 850W /1250W ATX Power, Support Redundant Power System	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	No Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm	With Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm
	Mounting	Rack-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DH11-FAR1-C	CIS-DQ17-FAR1-C

* The above specifications marked with "optional" are not included by default. If configuration is required, please add the optional items.



Development Number		CIS-DCML-FAR1	CIS-DADL-FAR1
System	CPU	Intel® 10th/11th, TDP up to 125W	
	Chipset	Intel® Q470 Chipset	
	Memory	4x DDR4 U-DIMM, Max to 128GB	
	OS	Win-10/64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Expansion	Slot	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) , 2x PCIe x1 (Gen1) 1x PCI	2x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 3x PCIe x4 (Gen4) , 1x PCIe x1 (Gen3) 1x PCI
Front I/O	Button/LED	1x Pwer Button, 1x OS Recovery 1x Power LED, 1x HDD LED 2x LAN LED	
	USB	2x USB 2.0	
Rear I/O	OS Recovery	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	4x RJ45: 3x Intel® I226-V 1x Intel® I219-V
	Interface	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Display	1x Line-out, 1 x Mic-in, optional	
	Audio	1x RS232/422/485	
	COM	4x USB 3.2 (Gen2) , 2x USB 3.2 (Gen1) 2x USB 2.0	2x USB 3.2 (Gen2) , 2x USB 3.2 (Gen1)
	USB	/	
Internal I/O	Expansion Slot	1x Mini-PCIe 1x M.2 2280 (SATA/NVMe)	1x Mini-PCIe (USB) 1x M.2 2230 1x M.2 3052 (PCIe/USB) 1x M.2 2280 (SATA/NVMe)
	COM	1x RS232/422/485 4x RS232	
	USB	1x USB 2.0 Type-A 2x USB 3.2 (Gen1)	1x USB 3.2 (Gen1) Type-A 2x USB 3.2 (Gen1) 2x USB 3.2 (Gen2)
	SATA	4x SATA 3.0, support Raid 0, 1, 5, 10	
	GPIO	1x 16bitGPIO, 8in/8out	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 3x System Fan
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W / 650W / 850W /1250W ATX Power, Support Redundant Power System	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	No Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm	With Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm
	Mounting	Rack-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DQ47-FAR1	CIS-DQ67-FAR1

* The above specifications marked with "optional" are not included by default. If configuration is required, please add the optional items.



Development Number		CIS-DCML-FAR1-C	CIS-DADL-FAR1-C
System	CPU	Intel® 10th/11th, TDP up to 125W	
	Chipset	Intel® Q470 Chipset	
	Memory	4x DDR4 U-DIMM, Max to 128GB	
	OS	Win-10/64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Expansion	Slot	2x PCIe x16 (Gen3, 1 x 16 or 2 x 8) 2x PCIe x4 (Gen3) , 2x PCIe x1 (Gen1) 1x PCI	2x PCIe x16 (Gen4, 1 x 16 or 2 x 8) 3x PCIe x4 (Gen4) , 1x PCIe x1 (Gen3) 1x PCI
Front I/O	Button/LED	1x Pwer Button, 1x OS Recovery 1x Power LED, 1x HDD LED 2x LAN LED	
	USB	2x USB 2.0	
Rear I/O	OS Recovery	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	4x RJ45: 3x Intel® I226-V 1x Intel® I219-V
	Interface	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Display	1x Line-out, 1 x Mic-in, optional	
	Audio	1x RS232/422/485, optional support 5V/12V power 4x RS232	
	COM	4x USB 3.2 (Gen2) , 2x USB 3.2 (Gen1) 2x USB 2.0	2x USB 3.2 (Gen2) 2x USB 3.2 (Gen1)
	USB	/	
Internal I/O	Expansion Slot	1x M.2 2280 (SATA/NVMe)	
	COM	1x RS232/422/485, optional support 5V/12V power 4x RS232	
	USB	1x USB 2.0 Type-A 2x USB 3.2 (Gen1)	2x USB 2.0 Type-A 2x USB 2.0
	SATA	4x SATA 3.0, support Raid 0, 1, 5, 10	
	GPIO	1x 16bitGPIO, 8in/8out, optional	
	FAN	1x CPU Fan 2x System Fan	1x CPU Fan 2x System Fan, optional mount3
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W / 650W / 850W /1250W ATX Power, Support Redundant Power System	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	No Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm	With Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm
	Mounting	Rack-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DQ47-FAR1-C	CIS-DQ67-FAR1-C

* The above specifications marked with "optional" are not included by default. If configuration is required, please add the optional items.



Development Number		CIS-DADL-FAR1	
System	CPU	Intel® 12th/13th, TDP up to 125W	
	Chipset	Intel® W680 Chipset	Intel® H610 Chipset
	Memory	4x DDR5 U-DIMM, Max to 128GB	4x DDR4 U-DIMM, Max to 64GB
	OS	Win-10/64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen5) 3x PCIe x4 (Gen4) , 1x PCIe x4 (Gen3) 2x PCI	1x PCIe x16 (Gen4) 1x PCIe x4 (Gen3) , 1x PCIe x2 (Gen3) 4x PCI
Front I/O	Button/LED	1x Pwer Button, 1x OS Recovery 1x Power LED, 1x HDD LED 2x LAN LED	
	USB	2x USB 2.0	
Rear I/O	OS Recovery	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	
	Interface	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Display	1x Line-out, 1 x Mic-in, optional	
	Audio	1x RS232/422/485	1x RS232/422/485 1x RS232
	COM	2x USB 3.2 (Gen2) 6x USB 3.2 (Gen1)	4x USB 3.2 (Gen1) 2x USB 2.0
	USB	/	
Internal I/O	Expansion Slot	1x M.2 2280 (NVMe)	1x M.2 2280 (SATA/NVMe)
	COM	1x RS232/422/485 4x RS232	4x RS232
	USB	2x USB 2.0 Type-A 2x USB 3.2 (Gen1) , 4x USB 2.0	2x 2.0 Type-A 2x USB 2.0
	SATA	4x SATA 3.0, support Raid 0, 1, 5, 10	4x SATA 3.0
	GPIO	1x 16bitGPIO, 8in/8out	
	FAN	1x CPU Fan 3x System Fan	
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W / 650W / 850W /1250W ATX Power, Support Redundant Power System	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	No Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm	With Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm
	Mounting	Rack-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DW68-FAR1	CIS-DH61-FAR1

* The above specifications marked with "optional" are not included by default. If configuration is required, please add the optional items.



Development Number		CIS-DADL-FAR1-C	
System	CPU	Intel® 12th/13th, TDP up to 125W	
	Chipset	Intel® W680 Chipset	Intel® H610 Chipset
	Memory	4x DDR5 U-DIMM, Max to 128GB	2x DDR4 U-DIMM, Max to 64GB
	OS	Win-10/64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
Expansion	Slot	1x PCIe x16 (Gen5) 3x PCIe x4 (Gen4) , 1x PCIe x4 (Gen3) 2x PCI	1x PCIe x16 (Gen4) 1x PCIe x4 (Gen3) , 1x PCIe x2 (Gen3) 4x PCI
Front I/O	Button/LED	1x Pwer Button, 1x OS Recovery 1x Power LED, 1x HDD LED 2x LAN LED	
	USB	2x USB 2.0	
Rear I/O	OS Recovery	2x RJ45: 1x Intel® I210-AT 1x Intel® I219-V	
	Interface	1x DP 1.2, 1x HDMI 1.4, 1x VGA	
	Display	1x Line-out, 1 x Mic-in, optional	
	Audio	1x RS232/422/485, optional support 5V/12V power	1x RS232/422/485 1x RS232
	COM	2x USB 3.2 (Gen2) 6x USB 3.2 (Gen1)	4x USB 3.2 (Gen1) 2x USB 2.0
	USB	/	
Internal I/O	Expansion Slot	1x M.2 2280	1x M.2 2280 (SATA/NVMe) , optional
	COM	1x RS232/422/485, optional support 5V/12V power	4x RS232
	USB	1x USB 2.0 Type-A, optional mount3 2x USB 3.2 (Gen1) 2x USB 2.0	1x 2.0 Type-A, optional mount2 2x USB 2.0
	SATA	4x SATA 3.0, support Raid 0, 1, 5, 10	3x SATA 3.0, optional mount4
	GPIO	1x 16bitGPIO, 8in/8out, optional	
	FAN	1x CPU Fan 3x System Fan	1x CPU Fan 2x System Fan, optional mount3
	OS Recovery	1x OS Recovery	
	Front Panel	1x Front Panel	
Power	Power Type	300W / 500W / 650W / 850W /1250W ATX Power, Support Redundant Power System	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0°C ~ 40°C (HDD) , 40°C 95%RH (HDD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing	
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
Mechanical	Demension	No Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm	With Panel With handle: 487 x 482 x 177mm No handle: 446 x 426 x 177mm
	Mounting	Rack-Mount	
Certification	Safety Certification	CCC	
Sales Model		CIS-DW68-FAR1-C	CIS-DH61-FAR1-C

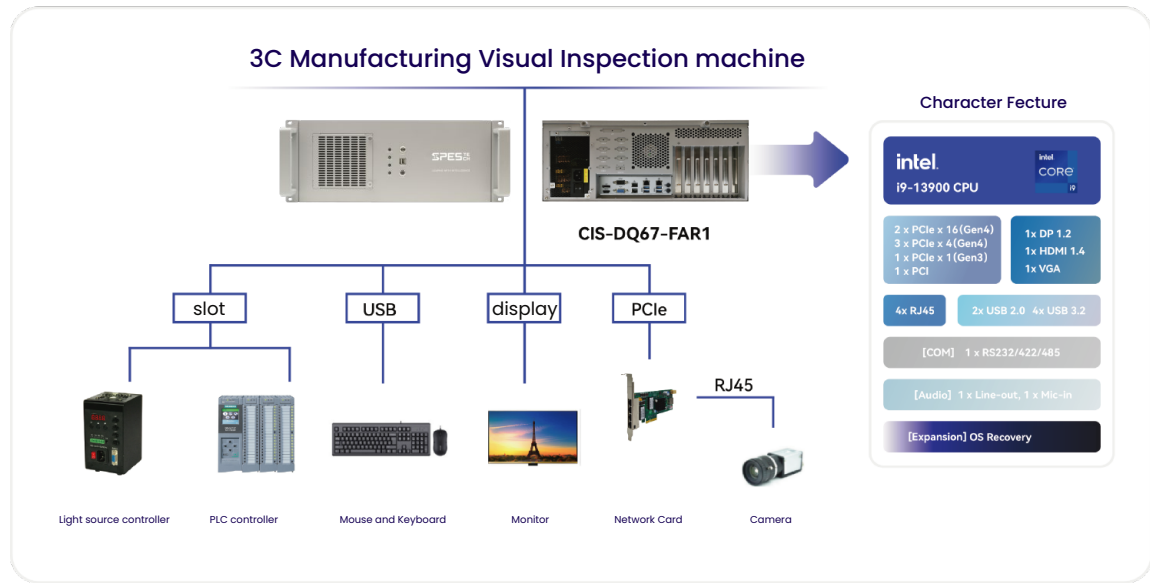
* The above specifications marked with "optional" are not included by default. If configuration is required, please add the optional items.

3C Manufacturing Visual Inspection and Control Solutions

Empowering the 3C industry to improve quality, industrial computers allow computer vision to have great potential.

Compared with human eye observation, machine vision has the advantages of high accuracy, fast speed, high objectivity, and stable detection effect. It is one of the future development directions of digitalization, networking, and intelligence of industrial manufacturing.

At present, my country's new quality productivity of machine vision is accelerating. For example, the defect detection of 3C products has been continuously iteratively developed through technology research and development, product innovation, and market application. The integrated technology of machine vision detection has been continuously improved, and the detection efficiency has been continuously improved. This solution use CIS-DQ67-FAR1 4U indutreal PC:



- Intel® i9-13900 CPU, 36M cache, turbo frequency up to 5.60 GHz, guaranteeing accurate and stable operation of the control system, multi-core operation meets multi-threaded computing requirements;
- Strong scalability to achieve external light source controller, industrial camera, display and other multi-function modules, Reliable internal heat dissipation space of the box to maintain stable operation;
- SGCC steel body, good corrosion resistance and toughness, 7*24 hours continuous stable work, with strong environmental adaptability.



Scan the QR code to view more IPC solutions



Development Number		Machine Vision Industrial PC CIS-IH41-HR01
System	CPU	Intel® 10th/11th, Up to 65W
	Chipset	Intel® H410 Chipset
	Memory	2x DDR4 SO-DIMM, Max up to 64G
	OS	Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min
Expansion	Slot	1x PCIe x16, support Full-Height / Half-Height Card
External I/O	Interface	6x RJ45: 2x Intel® RJ45, , For Communication, Intel® I210-AT 4x Intel® RJ45 (support POE) , Intel® I210-AT芯片, 15.4W
	Display	1x HDMI 1.4, with Screw Hole To Be Locked 1x VGA
	USB	4x USB 3.2 (Gen1) 4x USB 2.0 1x USB2.0 Type-A (inside for Dongle)
	Audio	1x Line out, 3.5mm audio slot
	COM	1x RS232/422/485 1x RS232
	DIO/GPIO	2 x 8bit GPIO, 8in/8out (1.5KV Optical Coupling Isolation)
	LED	1x CPU Temperature Alarm Light, 1 x HDD/SSD Status LED
	OS Recovery	1x OS Recovery
	Button	1x Power Button
	Remote	1x Remote ON/OFF
Power	Type	19-36VDC, 4Pin DC in
Environmental	Op.temp/ Humidity	-10~50°C (SSD) , 0 ~ 40°C (HDD) , 40°C 95%RH (HDD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
Mechanical	Shock	Operation: 10G@11ms, Non-Operation: 20G@11ms
	Demension	225 x 201.5 x130mm
Certification	Mounting	Desk-Mount, DIN-Rail
	Safety Certification	CCC
Sales Mode		CIS-IH41-HR01



Development Number		ZHAOXIN Platform Industrial PC CIS-Z60E-FC01
System	CPU	ZHAOXIN KX-6000E Series, 70W Max, MAInly pusher 6780A Platform
	Chipset	ZX-200
	Memory	2x DDR4 SO-DIMM, Max to 32GB
	OS	Win 7/8/10; Linux; UnionTech UOS V20
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min
Rear I/O	Interface	2x RJ45: 2x Intel® I210-AT
	Display	1x VGA 1x DVI
	Audio	1x Line-out, 1 × Mic-in, 1 x Line-in
	COM	2x RS232/422/485 10x RS232
	USB	4x USB 3.0 (including USB2.0) 16x USB 2.0, support 18x USB 2.0 Max
	PS/2	1x PS/2 slot, two-in-one
	Button	1x Power Button
	Reset	1x Reset
	Remote	1x Remote ON-OFF
	PICe Expansion	1x PCIe x8 (Gen3)
Internal I/O	LVDS	1x LVDS
	Expansion	2x SATA 3.0, 1x M.2 2280 (SATA)
	GPIO	1x 8bit GPIO, 4in/4out
	OS Recovery	1x OS Recovery
	Safety	1x TCM slot
Power	Type	350W Flex ATX Power
	Slot	24Pin + 4Pin ATX Power
Environmental	Op.temp/ Humidity	-10℃ ~ 55℃ (SSD) , 0℃ ~ 45℃ (HDD) , 45℃ 90%RH (HDD)
	Storage.temp/ Humidity	-40℃ ~ 60℃, 60℃ 95%RH, Non-Condensing
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms
Mechanical	Demension	330 x 300 x 135 mm
	Mounting	Desk-Mount, Wall-Mount
	Safety Certification	135mm, Compatible with DVD structure, Support 2x HDD inside
Certification	Safety Certification	CCC
Sales Model		CIS-Z60E-FC01



SPES TECH has obtained Zhaoxin Adaptation Certification and is promoting its products: https://www.zhaoxin.com/case_view.aspx?nid=4&typeid=233&id=1770



Development Number		PHYTIUM Platform Industrial PC CIS-CD20-FAGD
System	CPU	Phytium D2000/8 Standard, 2.3Ghz, TDP up to 40W
	Memory	2x DDR4 SO-DIMM, a single one maximum 16G, total maximum 32G
	OS	1x M.2 2280 SSD (SATA 3.0) 1x 2.5/3.5" HDD
	Watchdog Timer	Kylinsoft;UnionTechUOS V20 etc.
Rear I/O	Interface	2x RJ45 YT8521SC-CA
	Audio	1x Line-out, 1x Mic-in, 1x Line-in
	USB	6x USB 2.0 8x USB 3.0
	COM	10x RS232
	Button	1x Power Button
	LED	1x PWR LED, 1 x HDD LED
	Reset	1x Reset Button
	Config Connctor	1x Config Connector for Debug
Internal I/O	PCIe	1x PCIe x16 (Gen3)
	HDD	2x SATA3.0 (With SATA Power/4P)
	SDD	1x M.2 2280 (SATA3.0)
	GPIO	1x 8bit GPIO, 4in/4out
	WiFi	1x M.2 2230
	Safety	1x TCM slot
Power	In put	AC 100~240V, 50Hz/60Hz
	Type	ATX
	Supply power	Flex ATX 200W
Environmental	Op.temp/ Humidity	-10℃ ~ 55℃ (SSD) , 0℃ ~ 45℃ (HDD) , 45℃ 95%RH (HDD)
	Storage.temp/ Humidity	-40℃ ~ 70℃, 60℃ 95%RH, Non-Condensing
	Ranbom Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms
Mechanical	Demension	Small chassis: 225 x 215 x 115mm, Standred chassis: 270 x 270 x 130mm
	Mounting	Desk-Mount, Wall-Mount
Certification	Safety Certification	CCC
Sales Model		CIS-CD20-FAGD



SPES TECH has joined the Feiteng ecosystem to jointly build a prosperous and sound independent information industry ecosystem: <https://www.phytium.com.cn/partner/>

Industrial Panel PC

Complete platform support

The industrial tablet computer has complete functions and a lightweight body.

It can be paired with Raptor Lake U / Celeron J1900 / Elkhart Lake / Tiger Lake UP3 / Rockchip platforms to meet different performance needs. Some models can be equipped with fans.

Various scenarios



Scene Control



MES SYS Control



Warehousing & Logistics



Detection Control



Operation visualization



China



European Union



US



Canada



UK

Compact body

The screen supports multi-size TFT LCD with five-wire resistive touch screen/ten-point projected capacitive touch screen, adopts 12~24V or 9~36V wide voltage power supply, adopts sealed structure, the front panel supports IP65 grade dust and water resistance and has a power detection LED display, supports WiFi, 4G module expansion, supports USB self-recovery function, and has "OS Recovery" function, which can effectively reduce after-sales maintenance costs.

Support certification

13th Industrial Panel PC | Eye-opening

15"
4:3

15.6"
16:9

17"
4:3

21.5"
16:9

Boosting the upgrade of IOT



13th Intel® Raptor Lake U
Multi-core performance / Low load / Multitasking



Capacitor/resistor full flat display
LED status light shows product status



Integrated die-casting
Bionic heat sink fins / no fear of high temperature environment



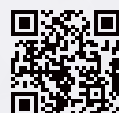
Fanless passive cooling to avoid dust accumulation / improve overall cooling performance



Multiple I/O interfaces design
Covering most scenarios / worry-free use



Front panel IP65 protection
OS Recovery / Reduce maintenance costs



Scan to learn more



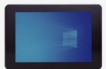
Protection



Multiple platforms



4:3



16:9



7 sizes

10.1"

12.1"

15"

15.6"

17"

19"

21.5"

5 platforms

Bay Trail Celeron® J1900

Tiger Lake UP3

Elkhart Lake J6412

Raptor Lake

Rockchip



Front view



Bottom view



Left view



Back view



10.1"



12.1"



15"



15.6"



17"



19"



21.5"

*Screen ratio is measured based on the diagonal of the actual visible screen of the monitor. Actual size may vary slightly due to different configurations and manufacturing processes.

**The display content is for illustration only. The actual product effects (including but not limited to appearance, color, size) and display content (background, illustrations, decorative elements) may differ slightly. Please refer to the actual product for details.



Development Number		CIP-W10R-J191	CIP-S12R-J191
System	Processor	Intel® Bay Trail Celeron® J1900	
	Memory	1x DDR3L SO-DIMM, up to 8GB	
	OS	Win 7-32/64bit; Win 10/-64bit; Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
External I/O	Ethernet	2x Intel® I210-AT	
	Display	1x HDMI 1.4	
	Audio	1x Audio (Line-out & Mic-in 2 in 1) , optional	
	COM	2x RS232/422/485	
	USB	1x USB 3.2 (Gen1) 5x USB 2.0	
	Remote SW	1x Remote ON-OFF	
	Power Input	1x Phoenix 2Pin	
	Power Button	1x Power Button	
	OS Recovery	1x OS Recovery	
Internal I/O	Expansion slot	1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2230 1x SIM Card	
	COM	2x RS232	
	GPIO	/	
	SATA	1x SATA 3.0	
Touchscreen	Touch Screen	5-Wire Resistive Touch; P-cap Multi-Touch	
	Touch	35,000,000 Times	
Display	Size	10.1"	12.1"
	Resolution	1280 (H) x 800 (V)	1024 (H) x 768 (V)
	Ratio	16:9	4:3
	Brightness	500 nits	500 nits
Power	Power Type	12-24V DC	
Environmental	Op.temp/ Humidity	-10°C ~ 55°C, 55°C 95%RH (SSD)	
	Storage.temp/ Humidity	-40°C ~ 60°C, 50°C 95%RH, Non-Condensing	
	Random Vibration	5-500Hz, 2Grms (SSD) Operation, 5-500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5-500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
	Front Panel Protection	IP65	
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)	
	Dimension	270 x 217.5 x 64.5mm	317 x 246 x 64.5mm
	Weight	2.2KG	3.2KG
Certification	Safety Certification	CCC, CE, FCC, IC, UKCA, UL, CB	CCC
Sales Model		CIP-W10C-J191	CIP-S12R-J191



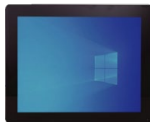
CIP-S15R-J191	CIP-W15R-J191	CIP-W19C-MG01	CIP-W21R-J191
Intel® Bay Trail Celeron® J1900			
1x DDR3L SO-DIMM, up to 8GB			
Win 7-32/64bit; Win 10-64bit; Linux			
System Reset, Programmable 255 levels timer interval, From 1-255 sec/min			
2x Intel® I210-AT	2x Intel® I210-AT (able to expand to 4 slots, add 2x Intel® I210-AT)		2x Intel® I210-AT
1x HDMI 1.4			
1x Audio (Line-out & Mic-In 2 in 1)	1x Audio (Line-out & Mic-In 2 in 1) , optional		1x Audio (Line-out & Mic-In 2 in 1) , optional
2 x RS232/422/485, 2 x RS232			
1 x USB 3.2 (Gen1) 5x USB 2.0	1 x USB 3.2 (Gen1) 6x USB 2.0		1x USB 3.2 (Gen1) 5 x USB 2.0
1x Remote ON-OFF			
1x Phoenix 2Pin			
1x Power Button	1x Power Button, 1 x STATUS LED		1x Power Button
1x OS Recovery			
1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2230 1x SIM Card			
2x RS232			
1x 8bit GPIO, optional			
1x SATA 3.0			
5-Wire Resistive Touch; P-cap Multi-Touch			
35,000,000 Times			
15"	15.6"	19"	21.5"
1024 (H) x 768 (V)	1366 (H) x 768 (V)	1440 (H) x 900 (V)	1920 (H) x 1080 (V)
4:3	16:9	16:10	16:9
350 nits	400 nits	250 nits	250 nits
12~24V DC			
-10°C ~ 50°C (SSD) , 0°C ~ 40°C (HDD) , 50°C 95%RH (SSD)			
-40°C ~ 60°C, 50°C 95%RH, Non-Condensing			
5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation			
5~500Hz, 2G Non-Operation			
Operation: 10G@11ms; Non-Operation: 20G@11ms			
IP65			
Panel Mount and VESA-mount (75 x 75mm)			
365 x 290 x 65mm	402 x 252 x 65mm	471 x 336 x 65mm	540 x 335 x 65mm
4.2KG	3.8KG	6.5KG	7.2KG
CCC, CE, FCC, IC, UKCA	CCC	CCC	CCC
CIP-S15R-J191	CIP-W15C-J191	CIP-W19R-MG01	CIP-W21C-J191



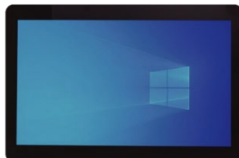
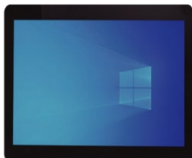
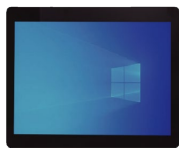
Development Number		CIP-S12R-TLUI	CIP-S15R-TLUI	CIP-W15R-TLUI
System	Processor	Intel® 11th i5/i3 (Tiger lake UP3) i3-1115G4/i5-1135G7		Intel® 11th i7/i5/i3 (Tiger lake UP3) i3-1115G4/i5-1135G7/i7-1165G7
	Memory	1x DDR4 SO-DIMM, Up to 32 GB		
	OS	Win 10-64bit, Linux		
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min		
External I/O	Ethernet	1x Intel® I210-AT 1x Intel® I219-V	1x Intel® I210-AT, 1x Intel® I219-V (able to expand to 4 slots, add 2x Intel® I210-AT)	
	Display	1x HDMI 1.4		
	Audio	1x Audio (Line-out & Mic-in 2 in 1)		
	COM	2x RS232/422/485	2x RS232/422/485, 2x RS232	
	USB	4x USB 3.2 (Gen1) 2x USB 2.0		
	Remote SW	1x Remote ON-OFF		
	Power Input	1x Phoenix 2Pin		
	Power Button	1x Power Button		
	OS Recovery	1x OS Recovery		
Internal I/O	Expansion slot	1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2230 1x SIM Card		
	COM	2x RS232		
	GPIO	/		
	SATA	1x SATA 3.0		
Touchscreen	Touch Screen	5-Wire Resistive Touch; P-cap Multi-Touch		
	Touch	35,000,000 Times		
Display	Size	12.1"	15"	15.6"
	Resolution	1024 (H) x 768 (V)	1024 (H) x 768 (V)	1366 (H) x 768 (V)
	Ratio	4:3	4:3	16:9
	Brightness	500 nits	350 nits	400 nits
Power	Power Type	12-24V DC		
Environmental	Op.temp/ Humidity	-10°C ~ 55°C, 55°C 95%RH (SSD)		-10°C ~ 50°C (SSD) , 0°C ~ 40°C (HDD) 50°C 95%RH (SSD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing		
	Random Vibration	5-500Hz, 2Grms (SSD) Operation, 5-500Hz, 1Grms (HDD) Operation		
	Sine Vibration	5-500Hz, 2G Non-Operation		
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms		
	Front Panel Protection	IP65		
	Mounting	Panel Mount and VESA-mount (75 x 75mm)		
Mechanical	Dimension	317 x 246 x 64.5mm	365 x 290 x 65mm	402 x 252 x 65mm
	Weight	3.2KG	4.2KG	3.8KG
Certification	Safety Certification	CCC	CCC, CE, FCC, IC, UKCA	CCC
Sales Model		CIP-S12R-15UI CIP-S12R-35UI	CIP-S15R-15UI CIP-S15R-35UI CIP-S15R-65UI	CIP-W15C-15UI CIP-W15C-35UI CIP-W15C-65UI



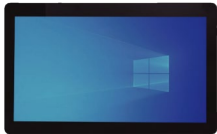
CIP-W15R-TLUI(HD)	CIP-S17R-TLUI	CIP-S19R-TLUI	CIP-W21R-TLUI
Intel® 11th i7/i5/i3 (Tiger lake UP3) i3-1115G4/i5-1135G7/i7-1165G7			
1x DDR4 SO-DIMM, Up to 32 GB			
Win 10-64bit, Linux			
System Reset, Programmable 255 levels timer interval, From 1~255 sec/min			
1x Intel® I210-AT, 1x Intel® I219-V (able to expand to 4 slots, add 2x Intel® I210-AT)			
1x HDMI 1.4			
1x Audio (Line-out & Mic-in 2 in 1)			
2x RS232/422/485, 2x RS232			
4x USB 3.2 (Gen1) , 2x USB 2.0			
1x Remote ON-OFF			
1x Phoenix 2Pin			
1x Power Button			
1x OS Recovery			
1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2230 1x SIM Card			
2x RS232			
1x 8bit GPIO, optional			
1x SATA 3.0			
5-Wire Resistive Touch; P-cap Multi-Touch			
35,000,000 Times			
15.6"	17"	19"	21.5"
1920 (H) x 1080 (V)	1280 (H) x 1024 (V)	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)
16:9	4:3	4:3	16:9
500 nits	250 nits	250 nits	250 nits
12~24V DC			
-10°C ~ 50°C (SSD) , 0°C ~ 40°C (HDD) , 50°C 95%RH (SSD)			
-40°C ~ 60°C, 60°C 95%RH, Non-Condensing			
5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation			
5~500Hz, 2G Non-Operation			
Operation: 10G@11ms; Non-Operation: 20G@11ms			
IP65			
Panel Mount and VESA-mount (75 x 75mm)			
402 x 252 x 65mm	410.5 x 344 x 65 mm	444.2 x 374.2 x 65 mm	540 x 335 x 65mm
3.8KG	3.8KG	6.5KG	7.2KG
CCC	CCC	CCC	CCC, CE, FCC, IC, UKCA
CIP-W15C-15UI-HD CIP-W15C-35UI-HD CIP-W15C-65UI-HD	CIP-S17R-15UI CIP-S17R-35UI CIP-S17R-65UI	CIP-S19R-15UI CIP-S19R-35UI CIP-S19R-65UI	CIP-W21C-15UI CIP-W21C-35UI CIP-W21C-65UI



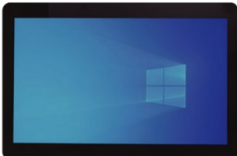
Development Number		CIP-W10R-ELK1	CIP-S12R-ELK1	CIP-S15R-ELK1
System	Processor	Intel® Elkhart Lake J6412		
	Memory	1x DDR4 SO-DIMM, Up to 32 GB		
	OS	Win 10-64bit, Linux		
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min		
External I/O	Ethernet	2x Intel® I226-V		2x Intel® I226-V (able to expand to 4 slots, add 2x Intel® I210-A7)
	Display	1x HDMI 1.4		
	Audio	1x Audio (Line-out & Mic-in 2 in 1)		
	COM	2x RS232/422/485		2x RS232/422/485, 2x RS232
	USB	4x USB 3.2 (Gen1) 2x USB 2.0		
	Remote SW	1x Remote ON-OFF		
	Power Input	1x Phoenix 2Pin		
	Power Button	1x Power Button		
	OS Recovery	1x OS Recovery		
Internal I/O	Expansion slot	1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2230 1x SIM Card		
	COM	2x RS232		
	GPIO	/		
	SATA	1x SATA 3.0		
Touchscreen	Touch Screen	5-Wire Resistive Touch; P-cap Multi-Touch		
	Touch	35,000,000 Times		
Display	Size	10.1"	12.1"	15"
	Resolution	1280 (H) x 800 (V)	1024 (H) x 768 (V)	1024 (H) x 768 (V)
	Ratio	16:9	4:3	4:3
	Brightness	500 nits	500 nits	350 nits
Power	Power Type	12-24V DC		
Environmental	Op.temp/ Humidity	-10°C ~ 60°C, 60°C 95%RH (SSD)		-10°C ~ 55°C, 55°C 95%RH (SSD)
	Storage.temp/ Humidity	-40°C ~ 60°C, 60°C 95%RH, Non-Condensing		
	Random Vibration	5-500Hz, 2Grms (SSD) Operation, 5-500Hz, 1Grms (HDD) Operation		
	Sine Vibration	5-500Hz, 2G Non-Operation		
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms		
	Front Panel Protection	IP65		
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)		
	Dimension	270 x 217.5 x 64.5mm	317 x 246 x 64.5mm	365 x 290 x 65mm
	Weight	2.2KG	3.2KG	4.2KG
Certification	Safety Certification	CCC , CE , FCC , IC , UKCA	CCC	CCC
Sales Model		CIP-W10C-J121	CIP-S12R-J121	CIP-S15R-J121



CIP-W15R-ELK1	CIP-S17R-ELK1	CIP-S19R-ELK1	CIP-W21R-ELK1
Intel® Elkhart Lake J6412			
1x DDR4 SO-DIMM, Up to 32 GB			
Win 10-64bit, Linux			
System Reset, Programmable 255 levels timer interval, From 1-255 sec/min			
2x Intel® I226-V/I210-AT (able to expand to 4 slots, add 2x Intel® I210-AT)			
1x HDMI 1.4			
1x Audio (Line-out & Mic-in 2 in 1)			
2x RS232/422/485, 2x RS232			
4x USB 3.2 (Gen1) 2x USB 2.0			
1x Remote ON-OFF			
1x Phoenix 2Pin			
1x Power Button			
1x OS Recovery			
1x Mini-PCIe 1x M.2 2280 (SATA 3.0) 1x M.2 2230 1x SIM Card			
2x RS232			
1x 8bit GPIO, optional			
1 x SATA 3.0			
5-Wire Resistive Touch;P-cap Multi-Touch			
35,000,000 Times			
15.6"	17"	19"	21.5"
1366 (H) x 768 (V)	1280 (H) x 1024 (V)	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)
16:9	4:3	4:3	16:9
400 nits	250 nits	250 nits	250 nits
12-24V DC			
-10°C ~ 50°C (SSD) , 0°C ~ 40°C (HDD) , 50°C 95%RH (SSD)			
-40°C ~ 60°C, 60°C 95%RH, Non-Condensing			
5-500Hz, 2Grms (SSD) Operation, 5-500Hz, 1Grms (HDD) Operation			
5-500Hz, 2G Non-Operation			
Operation: 10G@11ms; Non-Operation: 20G@11ms			
IP65			
Panel Mount and VESA-mount (75 x 75mm)			
402 x 252 x 65mm	410.5 x 344 x 65mm	444.2 x 374.2 x 65 mm	540 x 335 x 65mm
3.8KG	6.5KG	5.5KG	7.2KG
CCC	CCC	CCC	CCC
CIP-W15C-J121	CIP-S17R-J121	CIP-S19R-J121	CIP-W21C-J121



Development Number		CIP-S15R-RPL1	CIP-W15R-RPL1
System	Processor	Intel® Core™ 13th i3/i5/i7, Raptor Lake i3-1315U/ i5-1335U/ i7-1355U	
	Memory	1x DDR4 SO-DIMM, Up to 32 GB	
	OS	Win 10-64bit, Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
External I/O	Ethernet	1x Intel® I210-AT, 1x Intel® I219-V	
	Display	1x HDMI 1.4	
	Audio	1x Audio (Line-out & Mic-in 2 in 1)	
	COM	2x RS232/422/485, 2 x RS232	
	USB	2x USB 3.0 (Gen1) 2x USB 3.0 (Gen2)	
	Remote SW	1x Remote ON-OFF	
	Power Input	1x Phoenix 2Pin	
	Power Button	1x Power Button	
	OS Recovery	1x OS Recovery	
	Expansion slot	1x Mini-PCIe 1x M.2 2280 (SATA 3.0/NVME) 1x M.2 2230 1x M.2 2280 (SATA 3.0)	
Internal I/O	COM	2x RS232	
	GPIO	1x 8bit GPIOo, ptional	
	SATA	1x SATA 3.0	
Touchscreen	Touch Screen	5-Wire Resistive Touch; P-cap Multi-Touch	
	Touch	35,000,000 Times	
Display	Size	15"	15.6"
	Resolution	1024 (H) x 768 (V)	1366 (H) x 768 (V)
	Ratio	4:3	16:9
	Brightness	350 nits	400 nits
Power	Power Type	12~24V DC	
Environmental	Op.temp/ Humidity	-10℃ ~ 50℃ (SSD) , 0℃ ~ 40℃ (HDD) 50℃ 95%RH (SSD)	
	Storage.temp/ Humidity	-40℃ ~ 60℃, 60℃ 95%RH, Non-Condensing	
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
	Front Panel Protection	IP65	
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)	
	Dimension	365 x 290 x 65mm	402.3 x 252.4 x 65mm
	Weight	4.8KG	4.6KG
Sales Model		CIP-S15R-15UR CIP-S15R-35UR CIP-S15R-55UR	CIP-W15C-15UR CIP-W15C-35UR CIP-W15C-55UR

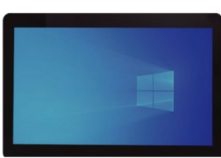


Development Number		CIP-S17R-RPL1	CIP-W21R-RPL1
System	Processor	Intel® Core™ 13th i3/i5/i7, Raptor Lake i3-1315U/ i5-1335U/ i7-1355U	
	Memory	1x DDR4 SO-DIMM, Up to 32 GB	
	OS	Win 10-64bit, Linux	
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
External I/O	Ethernet	1x Intel® I210-AT, 1x Intel® I219-V	
	Display	1x HDMI 1.4	
	Audio	1x Audio (Line-out & Mic-in 2 in 1)	
	COM	2x RS232/422/485, 2x RS232	
	USB	2x USB 3.0 (Gen1) 2x USB 3.0 (Gen2)	
	Remote SW	1x Remote ON-OFF	
	Power Input	1x Phoenix 2Pin	
	Power Button	1x Power Button	
	OS Recovery	1x OS Recovery	
	Expansion slot	1x Mini-PCIe 1x M.2 2280 (SATA 3.0/NVME) 1x M.2 2230 1x M.2 2280 (SATA 3.0)	
Internal I/O	COM	2x RS232	
	GPIO	1x 8bit GPIO (可选)	
	SATA	1x SATA 3.0	
Touchscreen	Touch Screen	5-Wire Resistive Touch; P-cap Multi-Touch	
	Touch	35,000,000 Times	
Display	Size	17"	21.5"
	Resolution	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)
	Ratio	4:3	16:9
	Brightness	250 nits	250 nits
Power	Power Type	12~24V DC	
Environmental	Op.temp/ Humidity	-10℃ ~ 50℃ (SSD) , 0℃ ~ 40℃ (HDD) 50℃ 95%RH (SSD)	
	Storage.temp/ Humidity	-40℃ ~ 60℃, 60℃ 95%RH, Non-Condensing	
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
	Front Panel Protection	IP65	
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)	
	Dimension	410.5 x 344 x 65mm	540.1 x 334.7 x 65mm
	Weight	7.2KG	7.8KG
Sales Model		CIP-S17R-15UR CIP-S17R-35UR CIP-S17R-55UR	CIP-W21C-15UR CIP-W21C-35UR CIP-W21C-55UR



Development Number		CIP-W15T-H110	CIP-W21T-H110
System	Processor	Intel® 6th/7th/8th/9th Generation Core™ /Pentium®/Celeron® CPU 35W	
	Memory	Intel® H110 Chipset	
	OS	2x DDR4 SO-DIMM, up to 32GB	
	Watchdog Timer	Win 7-32/64bit; Win 10/-64bit; Linux	
	Ethernet	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min	
External I/O	Display	1x Intel® I210-AT, 1x Intel® I219-V (able to expand to 2x Intel® I210-AT optional)	3x Intel® I210-AT, 1x Intel® I219-V
	Audio	1x HDMI	1x VGA, 1x HDMI
	COM	1x Audio (Line-out & Mic-in 2 in 1) , 选配	
	USB	2x RS232/422/485 2x RS232	2x RS232/422/485, 选配
	Remote SW	4x USB 3.2	4x USB 3.0
	Power Input	1x Remote ON-OFF	
	Power Button	1x Phoenix 2Pin	
	OS Recovery	1x Power Button	
Internal I/O	Expansion slot	1x Mini-PCIe(与 M.2 2280 SSD 互斥) 1x M.2 2280/2242 (SATA 3.0)	1x M.2 2280 (SATA 3.0)
	COM	/	2x RS232, Optional
	GPIO	/	1x 8bit GPIO, Optional, with COM use DB9
	SATA	1x SATA 3.0	
Touchscreen	Touch Screen	5-Wire Resistive Touch; P-cap Multi-Touch	
	Touch	35,000,000 Times	
Display	Size	15.6"	21.5"
	Resolution	1366 (H) x 768 (V)	1920 (H) x 1080 (V)
	Ratio	16:9	16:9
	Brightness	400 nits	250 nits
Power	Power Type	12V DC in	
Environmental	Op.temp/ Humidity	-10℃ ~ 45℃, 45℃ 95%RH (SSD)	
	Storage.temp/ Humidity	-40℃ ~ 60℃, 60℃ 95%RH, Non-Condensing	
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
	Front Panel Protection	IP65	
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)	
	Dimension	402.5 x 252.6 x 92.4mm	541.8 x 336.4 x 72.1mm
	Weight	5.24 KG	3.2KG
Sales Model		CIP-W15C-H110 CIP-W15R-H110	CIP-W21C-H110 CIP-W21R-H110

* The above specifications marked with "optional" are not included by default. If configuration is required, please add the optional items.



Development Number		CIP-W18R-ADL1
System	Processor	Intel® Core™ Alder Lake i5-12450H / i7-12650H
	Memory	1x DDR4 SO-DIMM, up to 32GB
	OS	Win 7-32/64bit, Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min
External I/O	Ethernet	1x Intel® I210-AT, 1x Intel® I219-V
	Display	1x HDMI 1.4
	Audio	1x Audio (Line-out & Mic-in 2 in 1)
	COM	2x RS232/422/485
	USB	2x USB 3.0 (Gen2) , 2x USB 3.0 (Gen1)
	Remote SW	1x Remote ON-OFF
	Power Input	1x Phoenix 2Pin
	OS Recovery	1x OS Recovery
Internal I/O	Expansion slot	1x M.2 2280 (SATA 3.0) 1x M.2 2230
	COM	4x RS232, optional
	GPIO	1x SATA 3.0
	SATA	1x LVDS
Touchscreen	Touch Screen	P-cap Multi-Touch
	Touch	35,000,000 Times
Display	Size	18.5"
	Resolution	1920 (H) x 1080 (V)
	Ratio	16:9
	Brightness	300 nits
Power	Power Type	12~24V DC in
Environmental	Op.temp/ Humidity	-10℃ ~ 40℃ (SSD) , 40℃ 95%RH (SSD)
	Storage.temp/ Humidity	-40℃ ~ 60℃, 60℃ 95%RH, Non-Condensing
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms
	Front Panel Protection	IP65
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)
	Dimension	467 x 288 x 72.1 mm
Sales Model		CIP-W18C-45H1 CIP-W18R-45H1 CIP-W18C-65H1 CIP-W18R-65H1

* The above specifications marked with "optional" are not included by default. If configuration is required, please add the optional items.



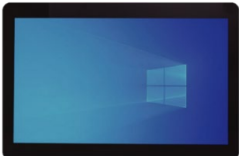
Development Number		CIP-S15R-RK68	CIP-W21R-RK68
System	Processor	RK3568 4 cores ARM Cortex-A55 @2.0GHz	
	GPU	4 cores Mali-G52 2EE	
	NPU	support 1T TOPS	
	Memory	on bnoard 4GB LPDDR4, 2G	
	eMMC	Default 32GB eMMC Flash, 16GB/32GB/64GB/128GB	
	OS	Android, Debian, Ubuntu	
External I/O	网口	2x GbE (10/100/1000 Mbps)	
	显示	1x HDMI 1.4	
	音频	1x Audio, 1x Line-out	
	SIM	1x SIM slots, with 4G module	
	SD Card	1x TF-CARD	
	COM	4x COM (RS232 with RS485)	
	USB	4x USB 3.0 1x Type-C OTG (USB2.0 Device)	
	Reset Button	1x Reset Button	
	LED	1x Power LED + 1x SYS LED	
	Remote SW	1x Remote ON-OFF	
	Power Input	1x Phinex 2Pin	
Internal I/O	Expansion slot	1x Full-Size Mini-PCIe Slot, for 4G 1x SIM Card Slot	
	Audio	1x MIC 2Pin wafer 1x 4Pin wafer, support 8Ω/5W speaker x1	
	WiFi	on board WIFI5	
	USB	4x USB 2.0	
	SATA	1x SATA + 1x SATA Power	
	CAN	2x CAN (Bom Option)	
	Display	1x 24bit double ways LVDS, max support 1920x1080 60Hz +Backlight adjustment 1x eDp Support 4K 60hz	
Touchscreen	GPIO	10 p 2.54 phoenix 8x GPIO+VCC+GND (Bom Option)	
	Touch Screen	5-Wire Resistive Touch; P-cap Multi-Touch	
	Touch	35,000,000 Times	
Display	Size	15"	21.5"
	Resolution	1024 (H) x 768 (V)	1920 (H) x 1080 (V)
	Ratio	4:3	16:9
	Brightness	350 nits	250 nits
Power	Power Type	12~24V DC	
Environmental	Op.temp/ Humidity	-10℃ ~ 50℃ (SSD) , 0℃ ~ 40℃ (HDD) 50℃ 95%RH (SSD)	
	Storage.temp/ Humidity	-40℃ ~ 60℃, 45℃ 95%RH, Non-Condensing	
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
	Front Panel Protection	IP65	
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)	
	Weight	2.66KG	7.8KG
	Dimension	365 x 290 x 65mm	402 x 252 x 65mm
Sales Model		CIP-S15R-RK68 CIP-S15C-RK68	CIP-W21C-RK68 CIP-W21R-RK68



Development Number		EMS Panel PC CIP-W10R-RK68
System	Processor	RK3568J (4cores, 2.00 GHz)
	Storge	LPDDR4 4G onboard
	Memory	eMMC 32G onboard
	Graphic	Arm Mali-G52 GPU
	OS	Win 7-32/64bit, Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1-255 sec/min
External I/O	Ethernet	2x RJ45, 1000M (RJ45 slots) 2x RJ45, 100M (RJ45 slots)
	Display	1x HDMI 1.4, 1x MIPI DSI/LVDS
	COM	1x RS232 (COM) 6x RS485 with 3KV separation (Phoenix)
	USB	1x USB 3.0 OTG (USB Type-A) 1x USB 2.0 HOST (USB Type-A)
	GPIO	8x DI with separation (Phoenix) 8x DO with separation (Phoenix)
	CAN	2x CAN 2.0B with separation (Phoenix)
	SIM	1x SIM Card Slot(Hot Swap)
	SD	1x TF Card Slot(Hot Swap)
	LED	1x RUN LED (Green, operation LED: Normal operation , Dark: Black out) 1x Programmable LED (Red, programmable LED)
	Button	1x Power button w/LED
Internal I/O	Burning Record Button	Burning Record
	Expansion slot	1x Full-size Mini-PCIe Slot (USB/PCIe) For 4G 1x M.2 2280 slot (SATA 3.0, PPC Easy to disassemble, supports hot swap) 1x M.2 2230 slot (WIFI Module)
	ANT	1x 4G Antenna hole 1x WI-FI Antenna hole Focus on one side
Touchscreen	Touch Screen	Touch screen Capacitive touch Capative touch is supported by default, and the board reserves the design of resistive
	Touch	35,000,000 times
Display	Size	10.1"
	Resolution	1280 (H) x 800 (V)
	Ratio	16:9
	Brightness	500 nits
Power	Power Type	12 ~ 36V DC, 2-pin phoenix Power supply reverse connection protection, supports over-current protection
	Other	Support illegal power off for 5s configure super capacitor, and provide abnormal power off detection interface
Environmental	Operation Temp.	-20℃ ~ 60℃
	Relative Humidity	5%-95%, Non-condensing
	Random Vibration	5~500Hz 1Grms operation
	Sine Vibration	5~500Hz 2Grms operation
Mechanical	Mounting	VESA, Flush
	Dimension	276 x 188.9 x 57.3mm
Certification	Safety Cerfication	CCC, CE, FCC
Sales Model		CIP-W10C-RK68-4GGL-WB-256, 4G for global, WIFI/BT, 256G SSD CIP-W10C-RK68-4GEU-WB-256, 4G for europeguob, WIFI/BT, 256G SSD CIP-W10C-RK68-4GCN-WB-256, 4G for Domestic, WIFI/BT, 256G SSD



Development Number		CIP-S15R-HB01
System	Processor	Intel® Bay Trail Celeron® J1900
	Memory	1x DDR3L SO-DIMM, up to 8GB
	OS	Win 7-32/64bit, Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min
External I/O	Ethernet	2x Intel® I211-AT
	Display	1x HDMI 1.4
	Audio	1x Audio (Line-out & Mic-in 2 in 1) , optional
	COM	2x RS232/422/485 4x RS232
	USB	1x USB 3.0 5x USB 2.0
	Remote SW	1x Remote ON-OFF
	Power Input	1x Phoenix 2Pin
	Power Button	1x Power Button
	OS Recovery	1x OS Recovery
Internal I/O	Expansion slot	1x Mini-PCIe 1x M.2 2280 1x M.2 2230 1x SIM Card
	USB	2x USB 2.0
	SATA	1x SATA 3.0
Touchscreen	Touch Screen	5-Wire Resistive Touch
	Touch	35,000,000 Times
Display	Size	15"
	Resolution	1024 (H) x 768 (V)
	Ratio	4:3
	Brightness	350 nits
	Active Area	304.128 x 228.096 mm
	LCD Dimension	326.5 (W) x 253.5 (H) x 9.1 (D) mm
Power	Power Type	9~36V DC
Environmental	Op.temp/Humidity	-10°C ~ 50°C (SSD) , 0°C ~ 40°C (HDD) , 50°C@95%RH (SSD)
	Storage.temp/Humidity	-40°C ~ 60°C, 60°C@95%RH, Non-Condensing
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms
	Front Panel Protection	IP65
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)
	Dimension	483 x 310 x 67.4 mm
Certification	Safety Cerfication	CCC
Sales Model		CIP-S15R-HB01



Development Number		CIP-W21C-MG01
System	Processor	Intel® Bay Trail Celeron®J1900
	Memory	1x DDR3L SO-DIMM, up to 8GB
	OS	Win 7-32/64bit, Win 10-64bit; Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min
External I/O	Ethernet	1x Intel® I210-AT
	Display	1x HDMI 1.4
	Audio	1x Audio (Line-out & Mic-in 2 in 1)
	COM	2x RS232/422/485 4x RS232
	USB	1x USB 3.0, 5x USB 2.0
	Remote SW	1x Remote ON-OFF
	Power Input	1x Phoenix 2Pin
	Power Button	1x Power Button
	OS Recovery	1x OS Recovery
Internal I/O	Expansion slot	1x Mini-PCIe 1x M.2 2280 1x M.2 2230 1x SIM Card
	USB	2x USB 2.0
	SATA	1x SATA 3.0
Touchscreen	Touch Screen	5-Wire Resistive Touch
	Touch	35,000,000 Times
Display	Size	21.5"
	Resolution	1920 (H) x 1080 (V)
	Ratio	16:9
	Brightness	250 nits
	Active Area	176.064 x 267.786 mm
	LCD Dimension	495.6 (H) x 292.2 (V) x 10.7 (D) mm
Power	Power Type	9~36V DC
Environmental	Op.temp/Humidity	-10°C ~ 50°C (SSD) , 0°C ~ 40°C (HDD) ,50°C@95%RH (SSD)
	Storage.temp/Humidity	-40°C ~ 60°C, 60°C@95%RH, Non-Condensing
	Random Vibration	5~500Hz, 2Grms (SSD) Operation, 5~500Hz, 1Grms (HDD) Operation
	Sine Vibration	5~500Hz, 2G Non-Operation
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms
	Front Panel Protection	IP65
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)
	Dimension	540 x 335 x 65mm
	Weight	6.2KG
Certification	Safety Cerfication	CCC
Sales Model		CIP-W21C-MG01

Industrial Touch Display

Precise Vision & Touch

SPES TECH industrial touch display adopts a full-plane five-wire resistive screen and a ten-point projected capacitive screen. The full-plane design is more beautiful and fashionable.

Variable

Touch input interface, 1x USB Type-B
USB output interface, 2x USB Type-A
different interfaces, extended needs.
12-24V wide voltage input.

Visualization

Multiple sizes, different application scenarios, with The IP65 protection level could makes the product "worry-free" to use and can adapt to various harsh industrial field environments. The OSD control keys on the side can provide more convenient operation solutions.

Personalization

The CID display series products are suitable for various workstations, various process stages, and scene equipment such as equipment control, control integrated cabinets, MES production line visualization, central control room visualization, etc., improving the operator's work efficiency, responding to system operation requirements in a timely manner, and ensuring stable and reliable quality to ensure continuous operation.



Protection



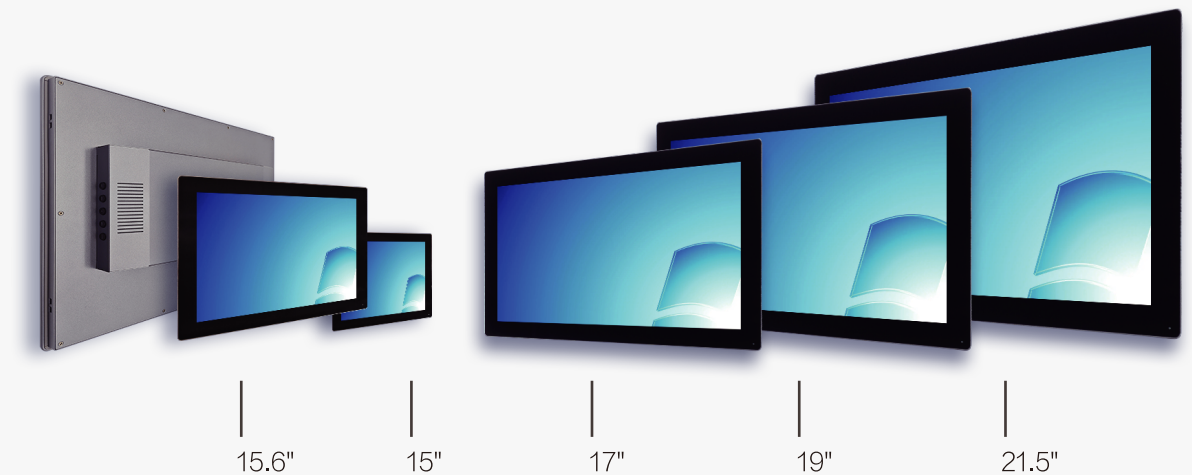
Certification



4:3



16:9



*Screen ratio is measured based on the diagonal of the actual visible screen of the monitor. Actual size may vary slightly due to different configurations and manufacturing processes.
The specification parameters of the two types of touch screens, resistance and capacitance, are derived from the test report.
For detailed data, please refer to the CID Industrial Touch Display Product Specification.

5 sizes

15 to 21.5 inches, suitable for different scenes, large size displays more data details.

4:3 or 16:9 screen ratio makes the display more flexible, thus adapting to various software terminals.

2 kinds of displays

Industrial grade touch screen



Resistive touch screen



Capacitive touch screen

The buttons are located on the side of the monitor, 51mm away from the edge of the frame.

Why is it designed like this?

Compared to buttons on the bottom edge or buttons that are hidden too deep, the CID series displays greatly improve operating convenience and can be operated with one hand without flipping or disassembling the display.

Visualization Assistant

≥85% light transmittance
≥7H surface hardness
10ms response time

10 million touch lifespan
35 million touches
60 million strokes
Pressure value < 10g

Front panel IP65 protection
Embedded or bracket installation
Applicable to various process stages

**The display content is for illustration only. The actual product effects (including but not limited to appearance, color, size) and display content (background,



Scan to learn more



Development Number		CID-S15R-LD01	CID-W15R-LD01	CID-S17R-LD01
Display	Size	15"	15.6"	17"
	Resolution	1024 (H) x 768 (V)	1366 (H) x 768 (V)	1280 (H) x 1024 (V)
	Ratio	4:3	16:9	4:3
	Brightness	350 nits	400 nits	250 nits
	Active Area	304.128 x 228.096mm	344.232 x 193.536mm	337.92 x 270.336mm
	LCD Dimension	326.5 (W) x 253.5 (H) x 9.1 (D) mm	363.8 (W) x 215.9 (H) x 9.3 (D) mm	358.5 (W) x 296.5 (H) x 7.7 (D) mm
	Contrast Ratio	2500:1	500:1	1000:1
	Display Color	16.2M	16.2M	16.7M
	Black Light Lifetime	70000Hrs	50000Hrs	30000Hrs
Touchscreen	Touch Screen Type	5-Wire Resistive Touch; P-cap Multi-Touch		
	Touch Time	35,000,000 Times		
External I/O	Display Input	1x VGA, 1x HDMI, 1x DP		
	Touch Input Slot	1x USB Type-B		
	USB	2x USB Type-A		
	Audio Input	1x Audio in		
	Power Input	12~24V DC in, phoenix		
	Speaker	2x 1.5W (left and right channels)		
	OSD Button	1x POWER (power switch, screen off) 1x MENU (menu/confirm) 1x UP (up/increase) 1x DOWN (down/decrease) 1x Exit (exit/AUTO)		
		Selectable modes: Mode, Brightness, Sound, Contrast, Color Temperature, Saturation, Sharpness		
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)		
	Dimension	365×290×50.8 mm	402 x 252 x 51 mm	410.5 x 344 x 50.8 mm
	Suggesting Cut Size	357 x 282 mm	393 x 243 mm	401.3 x 334.8 mm
Environmental	Op.temp/Humidity	-10℃ ~ 50℃, 50℃ 95%RH		
	Storage.temp/Humidity	-40℃ ~ 60℃, 50℃ 95%RH, 60℃ 95%RH, Non-Condensing		
	Random Vibration	5~500Hz, 2Grms Operation		
	Sine Vibration	5~500Hz, 2G Non-Operation		
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms		
	Front Panel Protection	IP65		
Certification	Safety Certification	CCC		
Sales Model		CID-S15R-LD01	CID-W15C-LD01	CID-S17R-LD01



Development Number		CID-S19R-LD01	CID-W21R-LD01
Display	Size	19"	21.5"
	Resolution	1280 (H) x 1024 (V)	1920 (H) x 1080 (V)
	Ratio	4:3	16:9
	Brightness	250 nits	250 nits
	Active Area	376.32 x 301.06mm	476.064 x 267.786mm
	LCD Dimension	396(W)x 324(H)x 10.9(D)mm	497.6 (W) x 292.2 (H) x 10.5 (D) mm
	Contrast Ratio	1000:1	1000:1
	Display Color	16.7M	16.7M
	Black Light Lifetime	30000Hrs	50000Hrs
Touchscreen	Touch Screen Type	5-Wire Resistive Touch; P-cap Multi-Touch	
	Touch Time	35,000,000 Times	
External I/O	Display Input	1x VGA, 1x HDMI, 1x DP	
	Touch Input Slot	1x USB Type-B	
	USB	2x USB Type-A	
	Audio Input	1x Audio in	
	Power Input	12~24V DC in, phoenix	
	Speaker	2x 1.5W (left and right channels)	
	OSD Button	1x POWER (power switch, screen off) 1x MENU (menu/confirm) 1x UP (up/increase) 1x DOWN (down/decrease) 1x Exit (exit/AUTO)	
		Selectable modes: Mode, Brightness, Sound, Contrast, Color Temperature, Saturation, Sharpness	
Mechanical	Mounting	Panel Mount and VESA-mount (75 x 75mm)	
	Dimension	444.2 x 374 x 51 mm	540 x 335 x 51 mm
	Suggesting Cut Size	433.6 x 363.6 mm	531 x 326 mm
Environmental	Op.temp/Humidity	-10℃ ~ 50℃, 50℃ 95%RH	
	Storage.temp/Humidity	-40℃ ~ 60℃, 50℃ 95%RH, 60℃ 95%RH, Non-Condensing	
	Random Vibration	5~500Hz, 2Grms Operation	
	Sine Vibration	5~500Hz, 2G Non-Operation	
	Shock	Operation: 10G@11ms; Non-Operation: 20G@11ms	
	Front Panel Protection	IP65	
Certification	Safety Certification	CCC	
Sales Model		CID-S19R-LD01	CID-W21C-LD01

Network Appliance

Firewall Security Shield

SPES TECH high-performance network security devices can be deployed in various applications such as Gi-LAN / UTM / SeGW / DPI or load balancing.

The Intel-based desktop 1U / 2U network security device provides rich I/O expansion options to adapt to various application scenarios and function expansion.

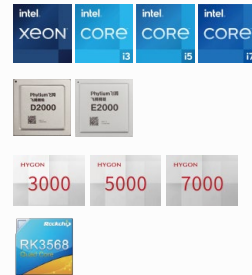
High-performance network security equipment and network cards

Mainstream platform, using Intel® platform-Skylake / Elkhart Lake and NXP platform-LS1046A.

Domestic platform, using Feiteng-D2000/E2000Q, Haiguang-3450/5480/7475 and Rockchip-RK3568 series processor platforms, with a wide range of memory options, abundant onboard Gigabit electrical ports and Gigabit optical ports, and CPU performance comparable to i5/i7 processors.

The network expansion module is flexible and scalable, and can realize hardware acceleration on the x86 network application platform. It currently supports Intel®-4 RJ45/4 SFP, NetEx-4 RJ45/4 SFP, MuChuang, etc. More supported brands are being continuously updated.

*Only chip products from the above manufacturers are purchased, and the adaptation process is completed independently by source control.



2U Rack-mount
Supports up to 64GB memory
Expandable network modules
Expandable PCIE module



Scan to learn more

Traditional Platform



Intel Platform-Skylake/ Elkhart Lake
 NXP Platform-LS1046A

- CNS-BSKL-FGFI is a 2U rack-mounted network application platform with X86 architecture
- C236 chipset
- Supports Intel® Xeon E3 series and 6th/7th Generation Core™ i7/i5/i3/Pentium®/Celeron® Processor up to 65W
- Onboard 6x Gigabit adaptive Ethernet ports 2x PCIe 3.0*8 NMC expansion slots
- 1x PCIe 3.0*4 internal expansion slots
- Modular design allows users to flexibly adjust configurations
- OS Recovery backup and restore function can effectively reduce daily maintenance costs

Domestic Platform



Feiteng platform-D2000/E2000
 Rockchip platform-RK3568/RK3588

- CNS-BD20-FGFI is a 2U rack-mounted network application platform, ARM architecture
- Adopts Feiteng Tengrui D2000, 8x FTC66 3-core, 2.3GHz
- Onboard 6x Gigabit adaptive Ethernet electrical ports and 4x Gigabit Ethernet optical ports
- 2x PCIe 3.0*8 NMC expansion slots, 1x PCIe 3.0*4 internal expansion slots
- Modular design, convenient for users to flexibly adjust configurations
- OS Recovery backup and restore function, which can effectively reduce daily maintenance costs

Network expansion module



Intel-4 RJ45 / 4 SFP

NETSWIFT NIC-4 RJ45 / 4 SFP

MUCSE

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2 platforms

4 modules



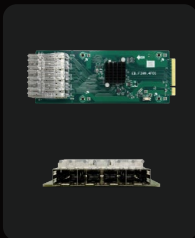
■ CNS-BD20-FGF1

- ARM architecture
- Using FHYTIUM Tengrui D2000, 8 FTC663 cores, 2.3GHz
- 2x USB 3.0
- 6x Gigabit adaptive Ethernet electrical ports
- 4x Gigabit Ethernet optical ports
- 2x PCIe 3.0*8 NMC expansion slots
- 1x PCIe 3.0*4 internal expansion slots
- Modular design, convenient for users to flexibly adjust configurations
- OS Recovery backup and restore function reduces daily maintenance costs



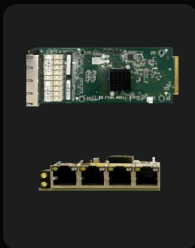
■ CNS-BSKL-FGF1

- X86 architecture, C236 chipset
- Support Intel® Xeon E3 Series and 6th/7th Generation Core™ i7/i5/i3/Pentium®/Celeron® Processor up to 65W
- 2x USB 3.0
- 6x Gigabit adaptive Ethernet ports
- 2x PCIe 3.0*8 NMC expansion slots
- 1x PCIe 3.0*4 internal expansion slots
- Modular design, convenient for users to flexibly adjust configurations
- OS Recovery backup and restore function reduces daily maintenance costs



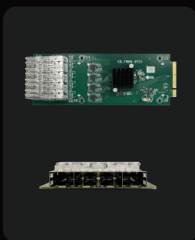
■ CEB-FIHN-4F01

- PCI Express x8 GF (x4) Gen2
- 1x i350-AM4 Chipset
- 4x SFP Fiber slots
- 1000Mbps speed
- 12v/10W



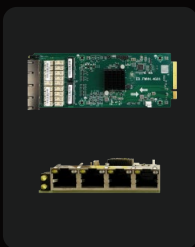
■ CEB-FIHN-4G01

- PCI Express x8 GF (x4) Gen2
- 1x i350-AM4 Chipset
- 4x RJ45 slots
- 10/100/1000Mbps speed
- 2x Bypass (3rd)
- 12v/10W



■ CEB-FWHN-4F01

- PCI Express x8 GF (x4) Gen2
- 1x WX1860A4 Chipset
- 4x SFP Fiber slots
- 1000Mbps speed
- 12v/10W



■ CEB-FWHN-4G01

- PCI Express x8 GF (x4) Gen2
- 1x WX1860A4 Chipset
- 4x RJ45 slots
- 10/100/1000Mbps speed
- 2x Bypass (3rd)
- 12v/10W



Development Number		CNS-BSKL-FGF1	CNS-BD20-FGF1
System	Processor	Socket LGA 1151 (E3 v5/v6, 6th/7th Core-i, Pentium, Celeron)	PHYTIUM Tengrui D2000, 8x FTC663 cores, 2.3GHz
	Chipset	Intel® C236 Chipset	/
	Memory	4x DDR4 2133/2400 MHz 288-pin ECC/non-ECC DIMM, Max to 64GB	2x DDR4 2666/3200 MHz 288-pin ECC/non-ECC DIMM, Max to 64GB
	BIOS	128Mbit SPI Flash	128Mbit SPI Flash, UEFI
	OS	Windows; Open Source Linux	QILIN; UOS; Open Source Linux
	Watchdog Timer	System Reset, Programmable 255 levels timer interval, From 1~255 sec/min	
Front I/O	LCM	Support 1602 LCM display optional	
	USB	2x USB 3.0	
	Ethernet	6x RJ45 Intel® I210-AT GbE (10/100/1000 Mbps) 2 Pairs of Advanced LAN Bypass (3&4, 5&6) Option	2x RJ45 CPU with mac (10/100/1000 Mbps) 4x RJ45 NETSWIFT WX1860 (10/100/1000 Mbps) 2 Pairs of Advanced LAN Bypass (3&4, 5&6) Option 4x SFP NETSWIFT WX1860
	LED	1x Power LED, 1x HDD LED 2x Bypass LED, 4 GPIO LEDS Option	
	Reset	1x Reset Button	
Rear I/O	Button	1x Power Button Option	
	HDMI/VGA	1x HDMI Option	Support PCIe expansion graphics card
	Fan	2x 8025 System Fan	
Internal I/O	M.2 SSD	2x M.2 2242/2280 , support SATA/PCIe x4 NVMe Adaptive	2x M.2 2242/2280, SATA agreement 1x M.2 2280, support NVME SSD (Rejection to internal PCIe x4 slot)
	PCIe Slot	1x PCIe 3.0 x4 Slot	1x PCIe 3.0 x4 Slot (Rejection to M.2 2280)
	COM	1x RS232, support 5V power supply	
	USB	2x USB 3.0	
	SATA	2x SATA 3.0 (up to 6Gb/s)	
	GPIO	1x 8bit GPIO, 4in/4out	
	Fan	1x CPU Fan (4Pin support smart fan, 12V) 2x Extra Fan (3Pin, 5V) 3x System Fan (4Pin support smart fan, 12V) , BIOS Detect fan status	
	PMBus	1x PMBus	
	OS Recovery	1x OS Recovery	
	Security	1x TPM 2.0	
Power	Power type	ATX 350W Redundant PSU or 250W Single PSU	
	Interface	24Pin + 8Pin ATX Power	
Environmental	Op.temp/ Humidity	0℃ ~ 40℃ (HDD) , 10% ~ 90%, Non-Condensing	
	Storage.temp/ Humidity	-20℃ ~ 75℃, 10% ~ 90%, Non-Condensing	
Mechanical	Dimension	Rack-Mount	
	Mounting	440 x 560 x 89 mm	260 x 300 x 135mm
Sales Model		CNS-BSKL-FGF1	CNS-BD20-FGF1

Attention: Front COM 1x RJ45 Type (RS-232)



Development Number		CEB-FIHN-4F01	CEB-FIHN-4G01
Ethernet	BUS	PCI Express x 8 GF (x4) , Gen2	
	Chipset	Intel® i350-AM4	
	Interface	4x SFP Fiber, 1000Mbps	4x RJ45, 10/100/1000Mbps
	Compatibility	IEEE 802.3, 802.3u, 802.3ab, 802.3az IEEE 802.1Q VLANs	
	PoE	N/A	
	LAN Bypass	N/A	2x Bypass (3rd)
	Cable	Lc optical fiber	Cat5e or Cat6, most 100 meters
Power	Power Input	12V	
	Power Consumption	10w	
Production	ESD	8KV (Air) , 4KV (Contact)	
	EFT	1 KV	
	Surge	1 KV (Signal Lines)	
	CS	10V	
	RE	class B	
	CE	class B	
Environmental	Op.temp/ Humidity	0°C ~ 40°C, 10%~90%, No condensation	
	Storage.temp/ Humidity	-20°C ~ 60°C,10%~90%, No condensation	
	Random Vibration	N/A	
	Sine Vibration	N/A	
	Shock	N/A	
Mechanical	Dimension	194.4 x 74 mm	
Certification	Safety Certification	Rohs, CE, FCC	
Sales Model		CEB-FIHN-4F01	CEB-FIHN-4G01



Development Number		CEB-FWHN-4F01	CEB-FWHN-4G01
Ethernet	BUS	PCI Express x 8 GF (x4) , Gen2	
	Chipset	WX1860A4	
	Interface	4x SFP Fiber, 1000Mbps	4x RJ45, 10/100/1000Mbps
	Compatibility	IEEE 802.3, 802.3u, 802.3ab, 802.3az IEEE 802.1Q VLANs	
	PoE	N/A	
	LAN Bypass	N/A	2x Bypass (3rd)
	Cable	Lc optical fiber	Cat5e or Cat6, most 100 meters
Power	Power Input	12V	
	Power Consumption	10w	
Production	ESD	8KV (Air) , 4KV (Contact)	
	EFT	1 KV	
	Surge	1 KV (Signal Lines)	
	CS	10V	
	RE	class B	
	CE	class B	
Environmental	Op.temp/ Humidity	0°C ~ 40°C, 10%~90%, No condensation	
	Storage.temp/ Humidity	-20°C ~ 60°C,10%~90%, No condensation	
	Random Vibration	N/A	
	Sine Vibration	N/A	
	Shock	N/A	
Mechanical	Dimension	194.4 x 74 mm	
Certification	Safety Certification	Rohs, CE, FCC	
Sales Model		CEB-FWHN-4F01	CEB-FWHN-4G01



Industrial Computer Product Catalog

Industrial control in various ways
is easy to handle with **SPES TECH**.

Version: V3.1 **IPC**

Last Updated: July_2025



SPES TECH launched a new Visual Identity in March 2025, The product appearance shown in this catalog is for example only.
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