

IoT industrial controller SP series

Introduction

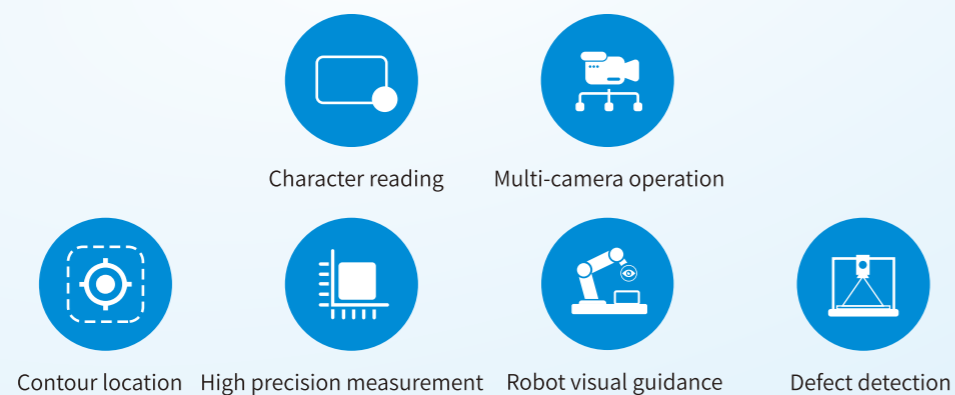
SP series scalable IOT industrial controller adopts processors with different performance, including Intel Apollo Lake, Intel Sky Lake/Kaby Lake, Whiskey lake-U series. It can provide powerful computing performance, excellent image processing capability, rich external interfaces, meet the maximum number of device connections and very low power consumption. Support extensive application development and convenient service deployment, and perform well in industrial automation and machine vision applications.



Features

- Multi-performance processor can be selected to meet different industrial testing requirements
- 300 thousand to 20 million pixel CMOS image sensor is optional
- Provide rich external interfaces to support one machine to perform multiple camera tasks
- Compatible with various standard industry software, and the upper computer software can be customized according to the needs of the industry
- Support screen customization and provide simple, flexible and high-performance hardware combination
- Super anti-interference, stable and efficient operation in complex scenes
- Equipped with full-featured vision software X-SIGHT VISION STUDIO, real time image transmission, high speed image matching

Application area



IoT industrial controller SP series

Naming rule

SP - XP720T - V310

① ② ③ ④ ⑤ ⑥ ⑦

- ① Industrial controller
- ② Product labeling information
- ③ CPU type
- ④ SSD capacity
- ⑤ RAM capacity
- ⑥ Mechanical hard disk capacity
- ⑦ Product series

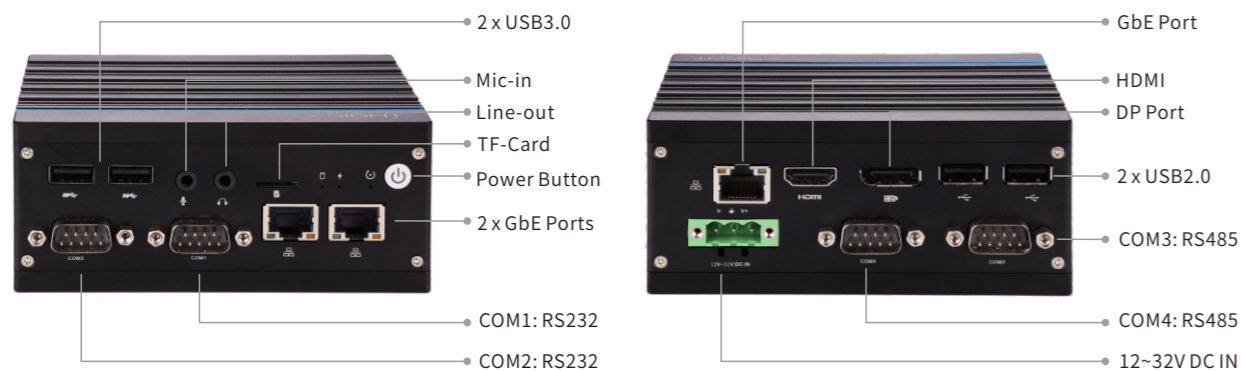
Model list

Series	Model	CPU	MEM(G)	SSD(G)	HDD(T)
V200 Series	SP-XN620T-V210	Intel®Pentium® N4200/Intel®Celeron® J4205	4	64	0
	SP-XN720T-V210	Intel®Pentium® N4200/Intel®Celeron® J4205	4	128	0
V310 Series	SP-XP720T-V310	Intel® Pentium® G4560	4	128	0
	SP-XS720T-V310	Intel® Core™ i3 8100	4	128	0
	SP-XC720T-V310	Intel® Core™ i5 9400	4	128	0
V320 Series	SP-XP720T-V325	Intel® Pentium® G4560	4	128	0
	SP-XS720T-V325	Intel® Core™ i3 8100	4	128	0
	SP-XC720T-V325	Intel® Core™ i5 9400	4	128	0
	SP-XP720T-V326	Intel® Pentium® G4560	4	128	0
	SP-XS720T-V326	Intel® Core™ i3 8100	4	128	0
	SP-XC720T-V326	Intel® Core™ i5 9400	4	128	0
V330 Series	SP-XP720T-V335	Intel® Pentium® G4560	4	128	0
	SP-XS720T-V335	Intel® Core™ i3 8100	4	128	0
	SP-XC720T-V335	Intel® Core™ i5 9400	4	128	0
	SP-XS720T-V336	Intel® Core™ i3 8100	4	128	0
	SP-XC730T-V336	Intel® Core™ i5 9400	8	128	0
	SP-XM830T-V336-M	Intel® Core™ i7 9700	8	256	0

*Note: some common models are listed above. Please consult the project engineer for detailed selection of industrial controller.

SP V210

SP V210 IoT industrial controller adopts Intel Apollo Lake processor, provides reliable I/O design, meets the maximum number of device connections. It adopts unique expansion design method to realize rich and rapid function customization through PCIe/USB/SPI/I2C/LPC signal conversion.

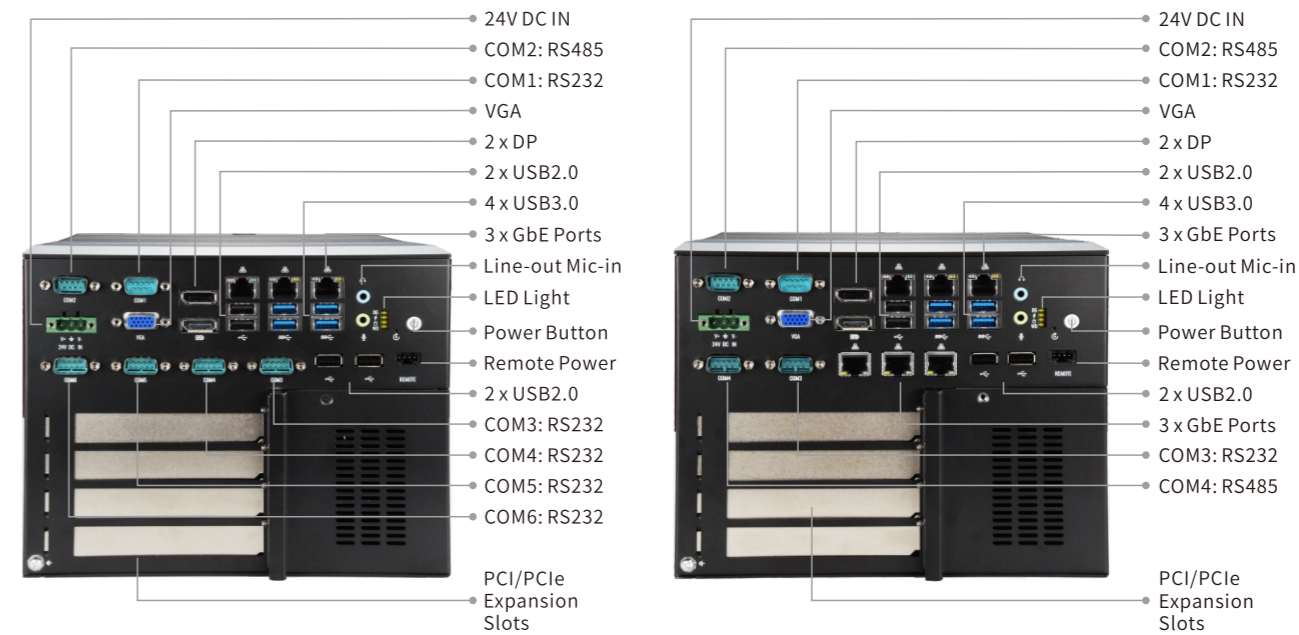


Parameter specification

Attribute	SP V210
Processor system	Intel® Pentium® N4200/ Intel® Celeron® J4205
BIOS	AMI8Mb UEFIBIOS
RAM	4G DDR3L 1600MHz (max 8G)
Display	DP, resolution up to4096x2160@60Hz HDMI, resolution up to3840x2160@30Hz
Audio	Line-out, Mic-in, high-definition audio, RealtekALC662
Ethernet	1xRTL8111H GbE, support network wake-up 2xIntel i210/i211 GbE
Serial port	2 x RS232, 2 x RS485
USBport	2 x USB2.0, 2 x USB3.0
Expansion slots	Full-size Mini-PCIe, support WLAN/WWAN module USIM, for 3G/4GLTE communication
Memory	eMMC (max 256GB) ; M.2 SSD (2242) ; TF card slot, SATA3.0, support 2.5" hard disk
Power supply and power consumption	12-32V DC IN / 24W
System	Windows 10 IoT Enterprise 64 bit, Linux
Dimension	120×100×51mm (length×width×height)
Installation method	Aluminum alloy, wall hanging kit
Weight	0.65kg
Working temperature	-20°C~60°C, with 0.7m/s airflow
Storage temperature	-40°C~80°C
Relative humidity	95%@40°C (no condensation)
ESD	Contact discharge ±4KV, air discharge ±8KV
Protection level	IP30
Certification standard (EMC)	CE, FCC Class A, TUV

SP V300

SP V310 industrial controller processing system up to Intel® Core™ i5 9400, provide powerful computing performance and image processing capability. It can support wide range of application development and convenient server deployment, and have excellent performance in industrial automation and machine vision applications.



*Note: the interface difference of V310, V325, V326. V310 is marked in the above figure, V325/V326 add a row of interfaces in the middle, V335/V336 add four PCI expansions.

Parameter specification

Attribute	SPV310	SPV325	SPV326	SPV335	SPV336
CPU model	Intel® Pentium® G4560/ Intel® Core™ i3 8100/ Intel® Core™ i5 9400		Intel® Core™ i3 8100/ Intel® Core™ i5 9400/ Intel® Core™ i7 9700		
Chipset	H110				
Memory	4G DDR4 SO-DIMM, max 32GB				
Display	2x DP, resolution up to4096 x 2304 @ 60Hz		1x VGA, resolution up to1920 x 1080 @ 60Hz		DP+DP / DP+VGA independent dual display
audio	Line-out, Mic-in, Realtek ALC662				
Ethernet	1x Intel i219LM GbE, support network wake-up 2 x Intel i211AT GbE		1x Intel i219LM GbE, support network wake-up 5 x Intel i211AT GbE		1x Intel i219LM GbE, support network wake-up 5 x Intel i211AT GbE
USB interface	4 x USB3.0 2 x USB2.0		4 x USB3.0, 4 x USB2.0, 1 x built-in USB2.0 TYPE A		
Serial port	1 x RS232 1 x RS485		5 x RS232 1 x RS485		2 x RS232 2 x RS485
Remote switch	/		4-pin connector supporting remote power switch and indicator		
Expansion slot	1 x full-size Mini-PCIe, support WLAN/WWAN module 1 x USIM, for 3G/4G LTE communication			1 x full-size Mini-PCIe, support WLAN/WWAN module 1 x USIM, for 3G/4G LTE communication 2 x PCI, PCIe (16x), PCIe (2x)	
Storage	1 x SATA 3.0 support 2.5" hard disk		3 x SATA3.0, support 2.5" hard disk		
Power supply	24V DC IN 3PIN Phoenix				
Power	120W				
Operation system	Windows 10 IoT Enterprise 64bit, Linux				
Installation method	Wall hanging kit installation				
Dimension	220x 226 x 68mm <small>(length × width × height)</small>		220 x 226 x 75mm <small>(length × width × height)</small>		220 x 226 x 176mm <small>(length × width × height)</small>
Weight	3kg		3.3kg		4kg
Working temperature	0°C - 50°C with 0.7m/s airflow				
Storage temperature	-40°C ~ 80°C				
Relative humidity	95% @ 40 (no condensation)				
ESD	Contact discharge ±4 KV, air discharge ±8 KV				
Protection level	IP30				
Certification standard	CE, FCC Class A, TUV				

PLC
HMI
Integrated controller
Industrial Information
Servo system
Frequency Inverter
Stepping system
Vision system

IoT industrial panel PC SPT series

Introduction

SPT P110 series compact embedded industrial panel PC is equipped with Intel Apollo Lake/Whiskey lake-U series multi-core processor. It adopts 10.1"/12.1"/15.6"/21.5" industrial high brightness TFT LCD, supports 10-wire capacitive multi-touch. The front of the whole machine is waterproof and has strong anti-interference ability. It is suitable for CNC machinery, CNC processing, 3C, packaging, inspection and other visual inspection industries.

Characteristics

- TFT LCD screen, supporting 10-wire capacitive multi-touch
- Support EtherCAT and other TSN network communication, meet real time control needs
- Provide gigabit Ethernet port, USB3.0 port, RS232 port to realize high-speed data transmission
- It can work completely without PC and output and process images directly on the display
- TPM 2.0 encryption protection, front panel IP65 protection

Naming rule

SPT - XL720T15 - P110

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① IOT industrial panel PC
- ② Product labeling information
- ③ CPU type
- ④ SSD capacity
- ⑤ RAM capacity
- ⑥ Mechanical hard disk capacity
- ⑦ Screen size
- ⑧ Product series

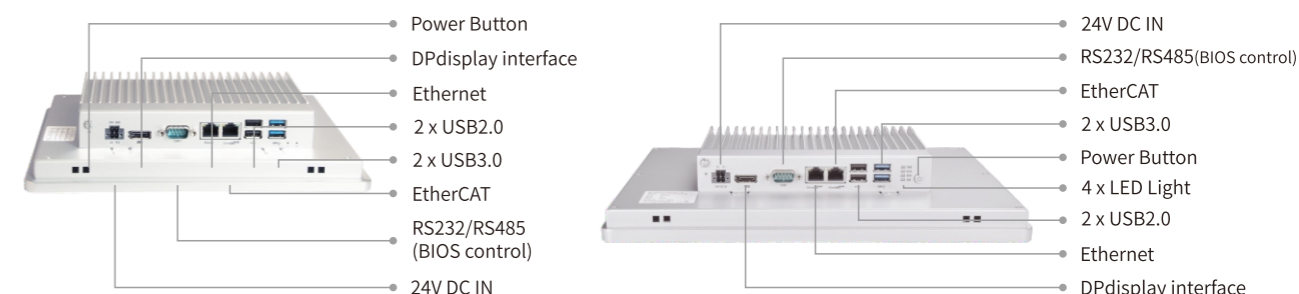
Model list

Model	CPU	MEN(G)	SSD(G)	HDD(T)	Screen size (")
SPT-XN720T10-P110	Intel®Pentium® J4205	4	128	0	10.1
SPT-XS720T12-P110	Intel®Core™ i3-8145U	4	128	0	12.1
SPT-XJ720T12-P110	Intel®Celeron® J3455	4	128	0	12.1
SPT-XL720T15-P110	Intel®Celeron® 4205U	4	128	0	15.6
SPT-XS720T15-P110	Intel®Core™ i3 8145U	4	128	0	15.6
SPT-XC720T15-P110	Intel®Core™ i5 8265U	4	128	0	15.6
SPT-XS720T21-P110	Intel®Core™ i3-8145U	4	128	0	21.5
SPT-XC830T21-P110	Intel®Core™ i5-8265U	8	256	0	21.5

*Note: some common models are listed above. Please consult the project engineer for detailed selection of industrial controller.

IoT industrial panel PC SPT series

Interface description



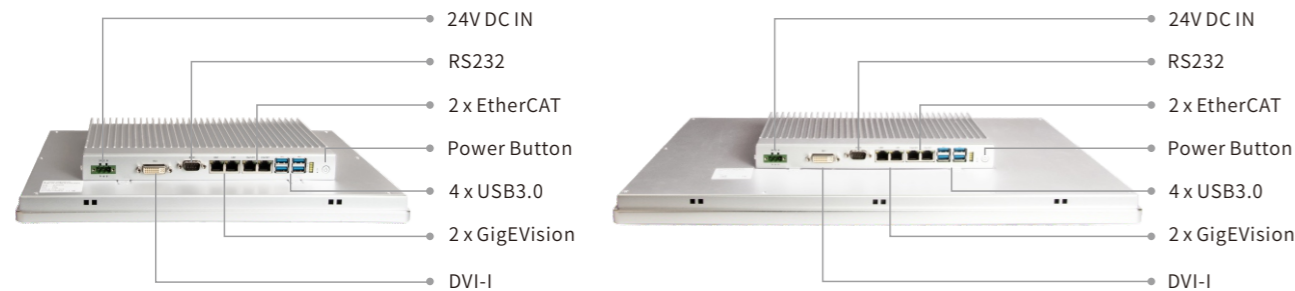
Parameter specification

Attribute	10.1"	12.1"	
Processor system	Intel®Celeron® J3455 Intel®Pentium® J4205	Intel®Celeron® J3455 Intel®Pentium® J4205	Intel® Core™ i3 8145U/8145UE
Chipset	Intel®SOC integrated		Intel®WHL-U
BIOS	AMI		
Memory	4G LPDDR4 2400MHz (max 8G)		4G DDR4 2666MHz (max 32G)
Storage	11. 1×M.2 memory (standard 128G optional), 1×EMMC optional		
External I/O	2xIntel I211-AT GbE; 1xRS232/485 (BIOS control); 2xUSB2.0, 2xUSB3.0; 1xDP;1xReset		2xIntel I211-AT GbE; 1xRS232; 1xRS485; 4xUSB3.0; 1xDVI-I; 1xReset
Internal I/O	113. 1×M.2, support WLAN/WWAN module, 1×USIM, for 4G/5G LTE communication		114. 1×M.2, support WLAN/WWAN module, 1×USIM, for 4G/5G LTE communication, 1×USB2.0, built-in for dongle
Display type	TFT LCD (LED backlight)		
Resolution	1200x800		
Touch type	10 wire capacitive multi-touch screen		
Transmittance	90%±3%		
Interface type	USB		
Indicator light	4indicator light (PWR/SATA/RUN/ERR)		4indicator light (LAN/PWR/USER1/USER2)
Power supply	24V DC IN 4PIN Phoenix		24V DC IN 3PIN Phoenix
Power	20W~60W		
System	Windows 10 IoT LTSC, Linux		
Dimension	complete machine 265mmx185mmx51.8mm opening 251mmx171mm	complete machine 320mmx219mmx50.8mm opening 311mmx210mm	
Weight	1.8kg	2.8kg	
Working temperature	0~50°C with 0.7m/s airflow		
Storage temperature	-20~60°C (no condensation)		
Relative humidity	10~95%@40°C (no condensation)		
Front cover protection level	IP65		
Certification standard (EMC)	CE , FCC		

PLC
HMI
Integrated controller
Industrial information
Servo system
Frequency inverter
Stepping system
Vision system

IoT industrial panel PC SPT series

Interface description



Parameter specification

Attribute	15.6"	21.5"
Processor system	Intel®Celeron® 4205U Intel®Core™ i3-8145U/8145UE Intel®Core™ i5-8265U	
Chipset	Intel®WHL-U	
BIOS	AMI	
Memory	4G DDR4 2666MHz (max 32G)	
Storage	11×M.2 memory (standard 128G optional), 1×EMMC optional	
External I/O	4xIntel I211-AT GbE; 1xRS232; 4xUSB3.0; 1xDVI-I; 1xReset	
Internal I/O	1×M.2, support WLAN/WWAN module, 1×USIM, apply to 4G/5G LTE communication, 1×USB2.0, built-in for dongle	
Display type	TFT LCD (LED backlight)	
Resolution	1366x768	1920x1080
Touch type	10-wire capacitive multi-point touch screen	
Transmittance	90%±3%	
Interface type	USB	
Indicator light	4xindicator light (LAN/PWR/USER1/USER2)	
Power supply	24V DC IN 3PIN Phoenix	
Power	20W~60W	
System	Windows 10 IoT LTSC, Linux	
Dimension	complete machine 390mmx245mmx51mm opening 381mmx236mm	complete machine 528mmx322.5mmx52.8mm opening 517mmx311mm
Weight	3.53kg	6.3kg
Working temperature	0~50°C with 0.7m/s airflow	
Storage temperature	-20~60°C (no condensation)	
Relative humidity	10~95%@40°C (no condensation)	
Front cover protection level	IP65	
Certification standard (EMC)	CE, FCC	

AGV industrial special model



Introduction

AGV IoT industrial controller is specially designed for AGV guided car, and on-board WiskeyLake-U series processor. The high-speed CAN interface realizes the fast interaction of torque, resolution, steering activity and other information with the control unit to ensure the smooth steering action. Multi-channel input and output interfaces realize high-speed signal transmission and provide customers with integrated and intelligent solutions.

Features

- 1 On-board Intel WiskeyLake-U platform, multi-core high performance
- 2 Rich external interfaces, 4-channel Gigabit Ethernet, 16-channel input and output
- 3 2-channel high speed CAN, support CAN2.0A and CAN2.0B protocol
- 4 Built-in super capacitor, stronger anti-vibration performance, ensuring data and system safety

Naming rule

TSC-AGV10 / i5-8265U / 8G / 128G

① ② ③ ④

① AGV10 series ② CPU type ③ Memory capacity(MEM) ④ Solid state drive capacity (SSD)

Model list

Series	Model	CPU	MEM(G)	SSD(G)
AGV Series	TSC-AGV10	Intel® Core™ i5-8265U	8G	128G

AGV industrial special model

Interface explanation



Parameter specification

Attribute	Parameter
Processor system	Intel®Celeron® 4205U Intel®Core™ i3-8145U Intel®Core™ i5-8265U
Chipset	Intel®WHL-U
BIOS	AMI
Memory	DDR4 2400MHz (max 32G)
Storage	1×M.2 2280 (standard 128G), 1×EMMC optional
I/O interface	4xIntel I211-AT(10/100/1000Mbps,Ethernet); 4xUSB3.0; 1 x RS232, 3 x RS485;
Internal I/O	IO:GPI Ooptocoupler isolation, 16 inputs (NPN/PNP), 16 outputs (NPN); 4 x LED(DG/standby/SATA/WD);1xReset; 2 x CANBus2.0 A/B
Extension	1×USB2.0, built-in for dongle, 2×SATA, up to 6Gb/s, 1×M.2, 2280 SSD or 3042 4G LTE communication, 1×M.2, 2230 support WLAN/WWAN module
Display	DVI-I, resolution up to 1920 x 1200 @60Hz
Power supply	24V DC 4PIN Phoenix, (2PIN for Remote)ACPI mangement
UPS	Built-in supercapacitor (4x300F)
Power	20W(typical)~60W(max)
System	Windows 10 IoT LTSC, Linux
Dimension	236 x 165 x 65.5 mm(Length×Width×Height)
Weight	2.0kg
Working temperature	0~60°Cwith 0.7m/s airflow
Storage temperature	-40°C~85°C, 60°C@90% (no condensation)
Relative humidity	10~95%@40°C (no condensation)
Protection level	IP30
Certification standard (EMC)	CE , FCC

4U shelf-mounted industrial controller

Introduction

T4U-A series industrial controller adopts Intel Kaby/Coffee/SkyLake processor, and the chassis is a standard 4U rack-mounted industrial chassis, which is formed by high-quality steel plate mold and has ultra-high stability and scalability. With its powerful industrial computing performance and image processing capability, T4U-A series can be widely used in industrial automation, machine vision, power and other industrial scenarios.



Advantage

- Support Intel generation 6/7/8/9 Core™/Pentium/Celeron series CPU, up to generation 10
- Up to 5 PCIe expansion slots are provided with strong spatial scalability
- Industrial-grade memory, large storage capacity, up to 128G memory
- Built-in 600W ATX power supply ensures stable operation of the machine
- Compatible with 4 3.5-inch disk drives

Naming rule

T4U-B10 / H170 / i5-6500 / 4G / 128G / 1T

① ② ③ ④ ⑤ ⑥

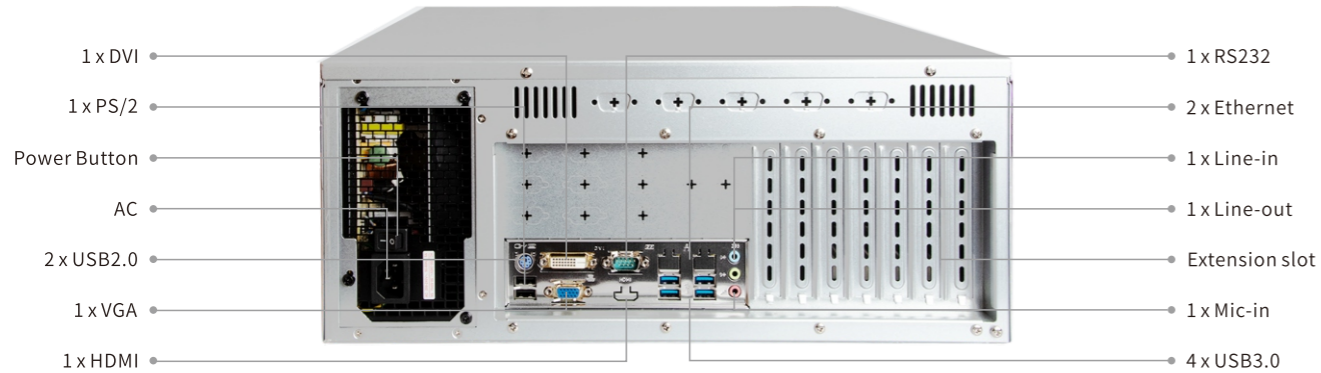
- ① T4U-B10 series
- ② MOBO
- ③ CPU type
- ④ MEM capacity
- ⑤ (SSD)capacity
- ⑥ HDD capacity

Model list

Model	MOBO	CPU	MEM(G)	SSD(G)	HDD(T)
T4U-B10	H170	Intel® Core™ i5-6500 Intel® Core™ i7-6700/7700	4G/8G/16G/32G	128G/256G/512G(mSATA)	1T/2T/4T
	H310C	Intel® Core™ i5-6500/9400 Intel® Core™ i7-6700/7700/9700	4G/8G/16G/32G		
	Q170	Intel® Core™ i5-6500/9400 Intel® Core™ i7-6700/7700/9700	4G/8G/16G/32G/64G	128G/256G/512G(M.2)	
	Q470	Intel® Core™ i5-10500 Intel® Core™ i7-10700	4G/8G/16G/32G/64G		

4U shelf-mounted industrial controller

Interface explanation



Parameter specification

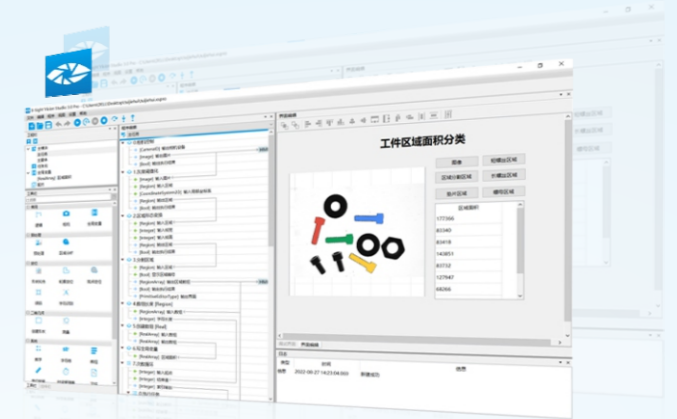
Attribute	T4U-B10/H170	T4U-B10/H310C	T4U-B10/Q170	T4U-B10/Q470
Processor system	Intel 6-7th Generation Core/Pentium/Celeron Desktop CPU	Intel 6/7/8/9th Generation Core/Pentium/Celeron Desktop CPU	Intel 6/7/8/9th Generation Core/Pentium/Celeron Desktop CPU	Intel 10th Generation Core/Pentium/Celeron Desktop CPU
Chipset	H170	H310C	Q170	Q470
BIOS	AMI UEFI BIOS		AMI UEFI BIOS(Suoopr Watchdog Timer)	
Memory	DDR4 U-DIMM,2400MHz (max 32G)		DDR4 U-DIMM,2400/2666/2933MHz (max 128G)	
Display	1 x HDMI, resolution up to 2560 x 1600 @60Hz 1 x VGA, resolution up to 1920 x 1200 @60Hz 1 x DVI, resolution up to 1920 x 1200 @60Hz		1 x HDMI, resolution up to 4096 x 2160 @60Hz 1 x VGA, resolution up to 1920 x 1200 @60Hz 1 x DVI, resolution up to 1920 x 1200 @60Hz	
Audio	Line-out, Mic-in, HD Audio, Realtek ALC662	Line-out, Mic-in, HD Audio, Realtek ALC897	Line-out, Mic-in, HD Audio, Realtek ALC662	Line-out, Mic-in, Realtek HDA Codec
Ethernet	1 x Intel i219LM GbE, 1 x Intel i211AT GbE, 100/1000 Mbps	1 x Intel i219LM GbE, 1 x Intel i225-V GbE, 100/1000 Mbps	1 x Intel i219LM GbE, 1 x Intel i211AT GbE, 10/100/1000 Mbps	
Serial port	Rear I/O: 1 x RS232 Internal: 3 x RS232, 2 x RS232/485 (jumper)		Rear I/O: 1 x RS232 Internal: 3 x RS232, 1 x RS232/422/485 (jumper), 1 x RS232/485 (jumper)	
USB port	Rear I/O: 4 x USB3.0, 2 x USB2.0 Header: 2 x USB2.0 Internal: 1 x USB2.0			
Other interfaces	1 x PS/2			
Extension slot	1 x PCIe 16X 1 x PCIe 4X 1 x PCIe 1X 4 x PCI 2 x Mini PCI-E 1 x SIM 8 x GPIO		1 x PCIe 16X 1 x PCIe 8X 3 x PCIe 1X 2 x PCI 1 x Mini PCI-E 1 x SIM 8 x GPIO	
Storage	128G/256G/512G SSD optional (mSATA) 3 x SATA3.0 interface			
Power supply	600W ATX			
System	Windows 10 IoT LTSC, Linux			
Dimension	176 x 430 x 471.4 mm [Height x Width x Depth (with handle 176 x 430 x 509.4mm)]			
Installation method	Standard shelf mounted			
Working temperature	0°C ~ 60°C			
Storage temperature	-20°C ~ 75°C			
Relative humidity	95% @ 40°C (no condensation)			

X-SIGHT VISION STUDIO 3.0

Designed for machine vision engineers

X-SIGHT VISION STUDIO 3.0 is a new generation of machine vision development platform based on Dataflow independently developed by Xinje. It can provide powerful image analysis tools, rich tool structure output and detailed feature details to facilitate user-defined operation, speed up the project development process and shorten the project cycle.

The unique advantage of X-SIGHT VISION STUDIO 3.0 is to focus on professional users and provide a rapid application development environment, which can easily establish typical applications and highly customized large-scale projects.



100+	Industry solutions	5 years	Concentrate on research and development
Millisecond	Execution speed	Hundreds of millions of times	Stable operation

Advantage

- No need to write code, drag and use, and instructions can be connected to each other to easily create projects
- Support mainstream industrial camera, manipulator, PLC, Modbus, TCP/IP and other communication modes
- Built-in powerful machine vision algorithm library, can customize functions as required, and provide user-defined interface
- The software provides a large number of engineering case references and detailed user manuals
- Comply with GigE Vision standards, support GenTL interface and a large number of vendor-related API
- All tools are optimized for SSE technology and multi-core processors, and the algorithm processing speed can reach millisecond level
- It can process various image areas, paths, geometry, sections and histograms
- It can process various image areas, paths, geometry, sections and histograms

No programming

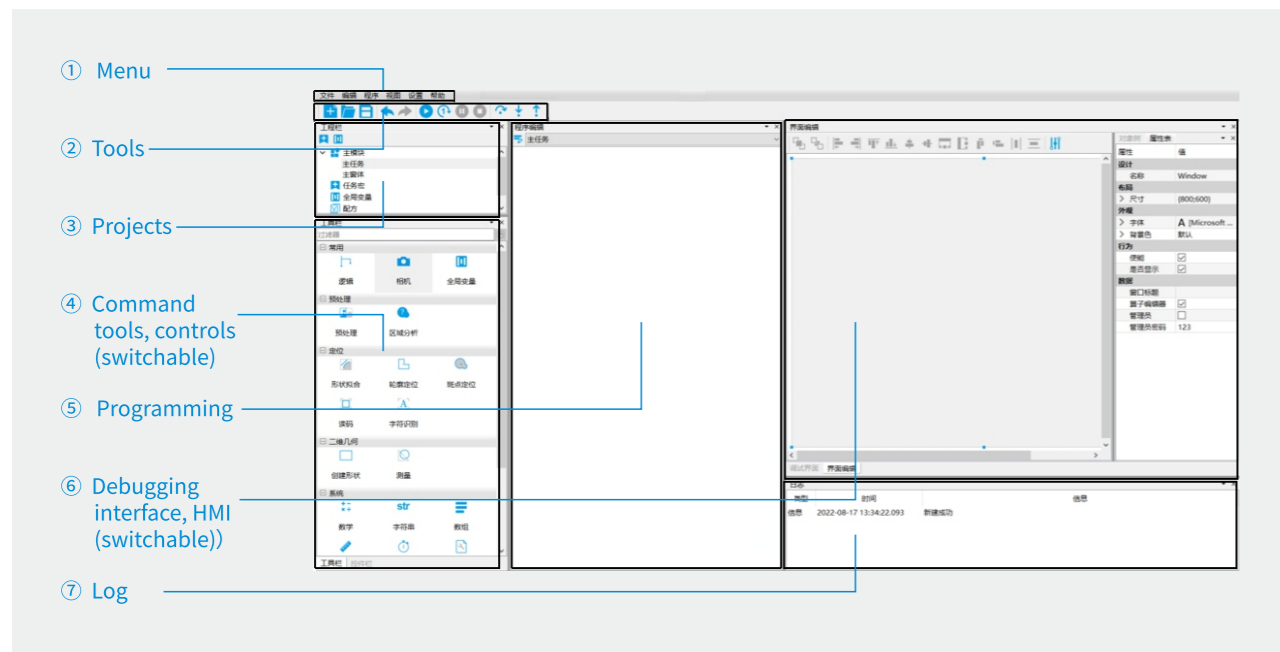
Drag icon

Easy to create

X-SIGHT VISION STUDIO 3.0

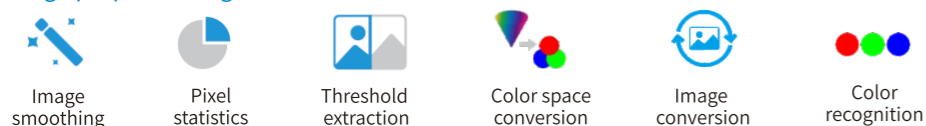
Software interface

X-SIGHT VISION STUDIO 3.0 has many functions, such as camera acquisition, image preprocessing, area analysis, detection and positioning.



Tool type

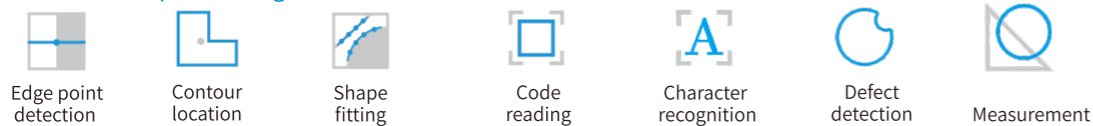
Image preprocessing



Regional analysis



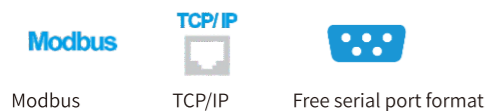
Detection and positioning



Basic calibration



Communication



Accessories

Camera

SV series industrial cameras, as the components of image acquisition in machine vision system, not only directly determine the resolution and image quality of all collected images, but also directly related to the operation mode of the whole system. Camera selection is an important link in the design of machine vision system.



SV series industrial camera resolution includes 0.3MP ~ 20MP, has powerful ISP algorithm, supports FPN, SPC correction, and is compatible with GigE Vision protocol, USB3.0 Vision protocol and GenICam standard.

Parameter specification

Product model	Pixel	Color	Resolution	Cmos dimension(")	Max frame rate (fps)	Exposure mode
SV-H30M300-C	300 thousand	Monochrome	640x480	1/4	300	Global
SV-H50C-C	500 thousand	Color	800x600	1/3.6	120	Global
SV-H120M-C	1.2 million	Monochrome	1280x960	1/3	30	Global
SV-H130C-C	1.3 million	Color	1280x1024	1/2	60	Global
SV-H200M-C	2.3 million	Monochrome	1920x1200	2/3	50	Global
SV-H300M-C	3.1 million	Monochrome	2048x1536	1/1.8	36	Global
SV-H500C-C	5 million	Color	2448x2048	2/3	23	Global
SV-H500M-C1	5.3 million	Monochrome	2592x2048	1	20	Global
SV-H600M-C	6.3 million	Monochrome	3072x2048	1/1.8	23	Roller shutte
SV-HA00C-C	10 million	Color	3840x2748	1/2.3	10	Roller shutte
SV-HA20C-C03	12 million	Color	4000x3000	1/1.7	9	Roller shutte
SV-HB00M-C	20 million	Monochrome	5472x3648	1	5.8	Roller shutte

*Note: some common models are listed above. Please consult the project engineer for detailed selection.

Camera lens

The main function of SL series industrial lens is to image the target on the photosensitive surface of the image sensor. The important parameters of lens selection are resolution, focal length, aperture size, depth of field, interface form, etc. Reasonable selection and installation of lens is an important link in the design of vision system.



FA fixed focus lens has no focal segment and only with one fixed focal length. It is the most complete and widely used type of industrial lens. It has the advantages of fast focusing speed, accurate photometry and stable imaging quality.

Common lens model list

Lens series	Product model	Focal length (mm)	Distortion rate (%)	Resolution	Inductive size	Interface
Fixed focus lens	SL-DF12-C	12	-0.8	5 million	2/3	C Interface
	SL-DF16-C	16	-0.1	5 million	2/3	C Interface
	SL-DF35-C	35	-0.8	5 million	2/3	C Interface
	SL-DF08-C10M	8	-0.1	10 million	2/3	C Interface
	SL-DF35-C20M	35	-0.04	10 million	1.1	C Interface

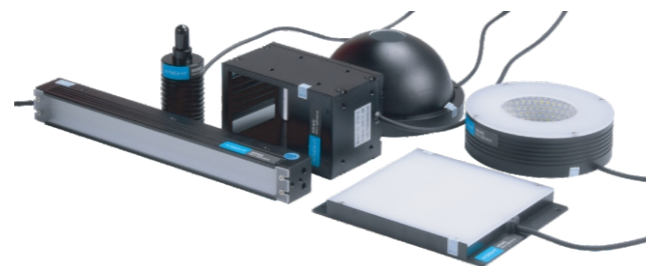
*Note: some common models are listed above. Please consult the project engineer for detailed selection.



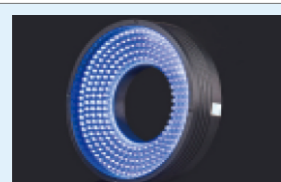
Accessories

| Light source

SI series light source is an important part of machine vision system. It has the advantages of fast response speed, long service life and strong anti-interference ability. Its main function is to improve the brightness and image contrast of the device to be detected, ensure the stability of the image, reduce the pressure of algorithm processing and improve the accuracy of visual recognition.

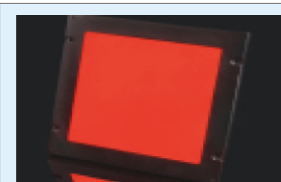


Ring light source



PCB substrate detection, microscope illumination, liquid crystal correction

Backlight



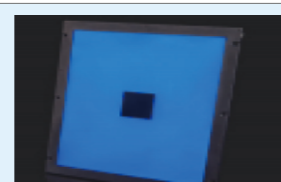
Mechanical part size, electronic components, IC shape, film stain detection

Parallel backlight



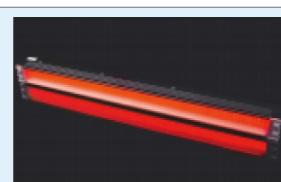
Circuit board component detection and identification, transparent dimension measurement, LED bad point detection

Hole type parallel backlight



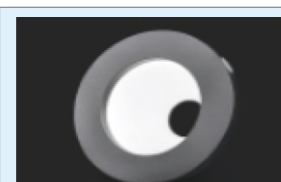
Circuit board component detection and recognition, electronic component character recognition, mark point positioning

Strip light source



Metal surface detection, image scanning, surface crack detection, LCD panel detection

Spherical integral light source



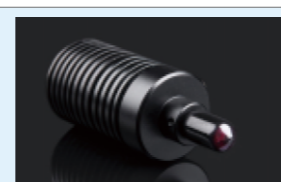
Curved surface, surface concave convex, arc surface detection, object surface detection with strong reflection

Coaxial light source



Surface scratch detection, chip and silicon wafer damage detection, packaging bar code identification

Point source



Used with telecentric lens, mark point positioning, lens and liquid crystal glass correction

■ Common light source model list

Light source series	Product model	Dimension (mm)	Angle(°)	LED rows	Color
Ring light source	SI-JD54A00-W	External diameter 54	0°		White
	SI-JD70A45-W	External diameter 70	45°		White
	SI-JD100A60-R	External diameter 100	60°		Red
Backlight	SI-JB100100-W	100x100 (length×width)			White
Parallel backlight	SI-JPB050050-W	50x50 (length×width)			White
Hole type backlight	SI-JHB200200-W	200x200 (length×width)			White
Strip light source	SI-JL050R3-W	Length 50		3	White
	SI-JL300R6-R	Length 300		6	Red
Spherical integral light source	SI-JS70-W	Diameter 70			White
	SI-JS262-W	Diameter 262			White
Coaxial light source	SI-JC50-R	50x50 (length×width)			Red
	SI-JC150120-W	150x120 (length×width)			White
Point source	SI-JP30W03-R	Diameter 30			Red
	SI-YTP400W30-W	Diameter 400			White

*Note: some common models are listed above. Please consult the project engineer for detailed selection.

| Light source controller

SIC series light source controller is mainly used to supply power to the light source, control the brightness and lighting state (on and off) of the light source, and realize the stroboscopic of the light source by triggering the signal to the controller, so as to prolong the service life of the light source.

X-SIGHT visual controller is divided into analog controller and digital controller. The digital controller can be remotely controlled by PC. Users can select different types of controllers according to different production conditions.



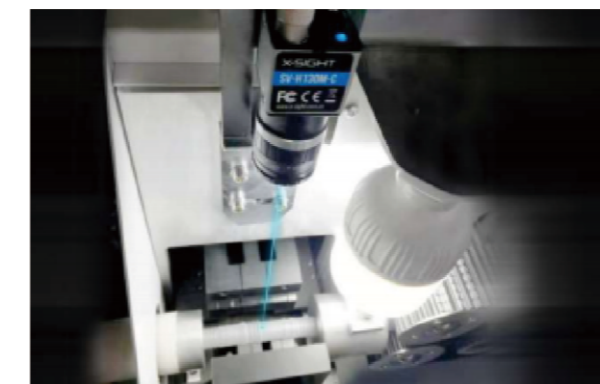
Common light source controller model list

Product model	Regulation mode	Input voltage (V)	Channel	Output power (W)
SIC-J241-A	Analog	24	1	Total power not exceeding 24W
SIC-J242-A	Analog	24	2	Single channel 24W, total not exceeding 48W
SIC-J244-A	Analog	24	4	Single channel 15W, total not exceeding 60W
SIC-XY241-D	Digital	24	1	Total power not exceeding 24W
SIC-XY242-A	Analog	24	2	Single channel 24W, total not exceeding 48W
SIC-XY244-D	Digital	24	4	Single channel 15W, total not exceeding 60W

*Note: some common models are listed above. Please consult the project engineer for detailed selection.

Typical applications of vision system

■ Hose positioning deviation correction and cutting system



In view of the problems that the traditional pipe cutting scheme cannot accurately cut the deformed hose, X-SIGHT launched the hose positioning and deviation correction cutting system, which automatically compensates the cutting point offset to ensure the accuracy of knife dropping, with an accuracy of up to 0.05mm.

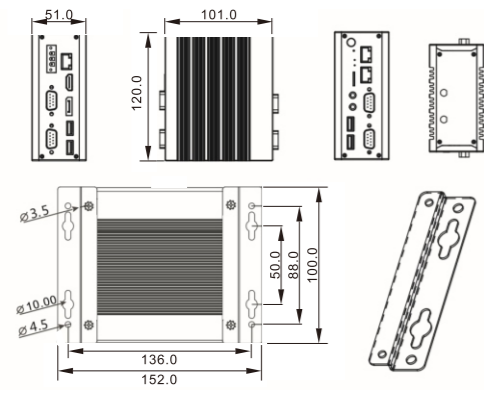
■ Door panel texture classification system based on AI recognition



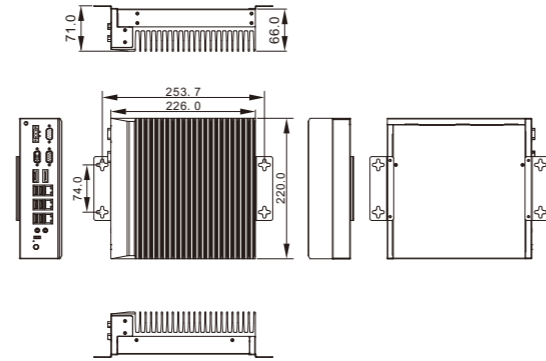
The door panel texture detection project launched by X-SIGHT innovatively introduces the deep learning detection method to finely identify the features such as color, texture and edge line, so as to realize the independent training and recognition of thousands of door panels. It is widely used in door panel, floor, ceramic tile and other large panel classification projects.

Dimension (Unit: mm)

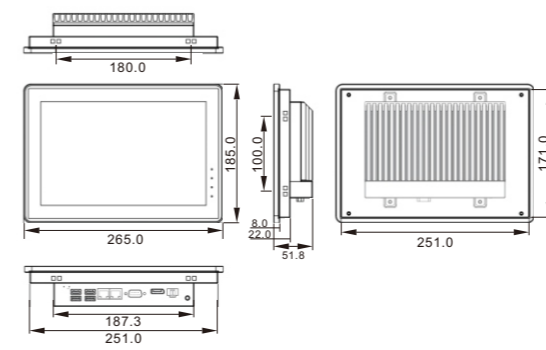
SP V210



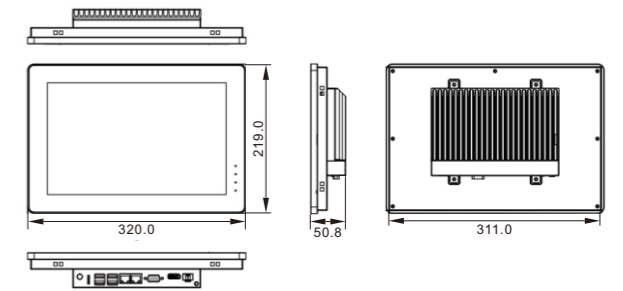
SP V310



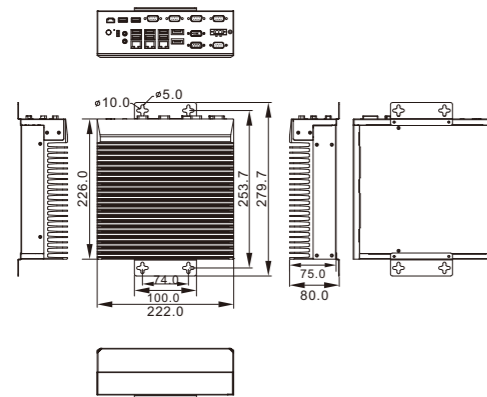
SPT P110 10.1"



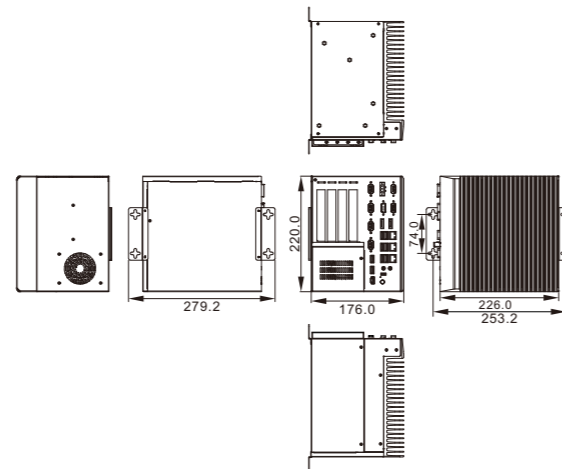
SPT P110 12.1"



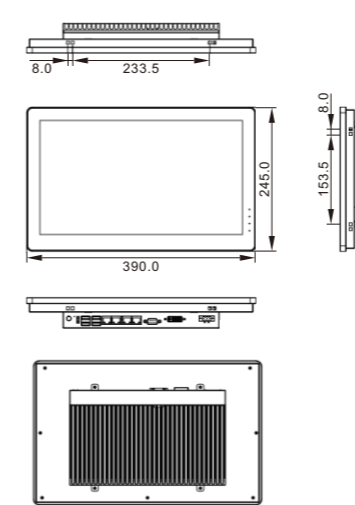
SP V325 / SP V326



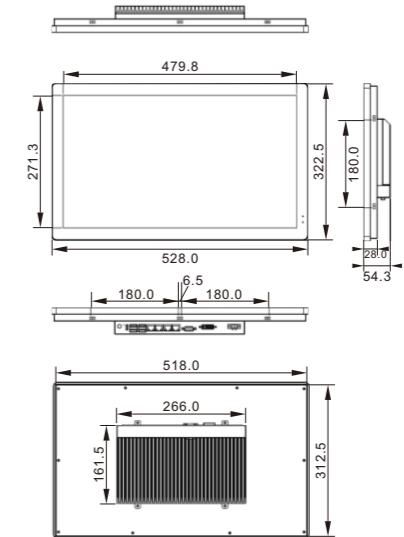
SP V335 / SP V336



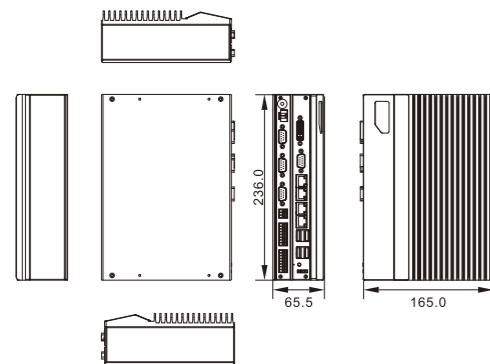
SPT P110 15.6"



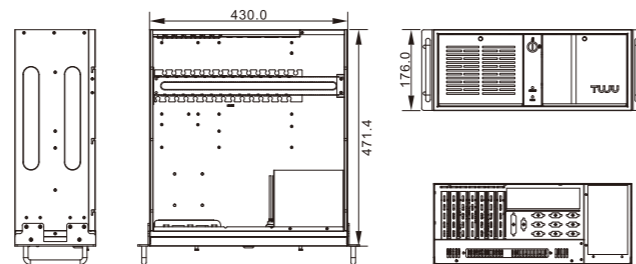
SPT P110 21.5"



AGV industrial special model



4U shelf-mounted industrial controller



PLC

HMI

Integrated controller

Industrial information

Servo system

Frequency inverter

Stepping system

Vision system