ARBOR

Industrial Automation

Automation Controllers

Transportation Computers

Digital Signage Players

Industrial HMI

Slim Panel PCs

Automation Controllers

Bringing Industrial Strength to IIoT Applications

ARBOR's automation controllers consolidate high performance CPUs, wide operating temperature ranges, wide voltage ranges, rich I/O options, and highly expandable capabilities for use in industrial automation applications. With the advent of smart factories, PC-based IoT controllers play a critical role in enabling IIoT applications. Our offerings targeting areas like machine vision and predictive maintenance can help customers accelerate IIoT deployment for intelligent manufacturing.

Real-time Communication

From the computing platform itself to the GPU and network interfaces, ARBOR's automation computers use selected components to ensure real-time communication between control systems and the factory floor.

Addressing AOI Demands

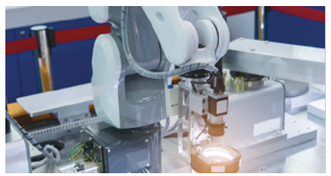
Featuring USB 3.0 and GbE PoE interfaces and robust expandable design, ARBOR's automation controllers meet the ever increasing demands of Automated Optical Inspection (AOI) applications.

Rich I/O Interfaces

Multiple I/O interfaces and connectivity can simultaneously provide DI/O for real-time inspection, monitoring, and surveillance. Power ignition function can secure important data in case of power outages.

X-Ray Inspection for Food Safety Process

- Location: UK
- Service & Product: FPC-7900



Mobile Phone Inspection

- Location: China
- Service & Product: FPC-9002-P6

Transportation controller

- Location: Europe
- Service & Product: ARES-5310

Featured Products

FPC-810X Series

FPC-8107

FPC-9107-P6-G2

FPC-9107-L2U4-G2

Automation Controllers

Smart IoT Solutions

Smart factory is the future. To realize its potential in driving productivity, efficiency, cost savings, and competitive advantage, we need smart factories, smart machines, and smart products to communicate with each other.

Fanless Design and Wide Temperature Support

The fanless design of our box PC makes dust accumulation avoidable. Also, it comes with a wide operating temperature range from -20°C to 70°C and storage temperature range from -40°C to 85°C, it suitable for operations in harsh environments.

Designed for Connectivity

ARES-5311 has two Mini-PCIe slots to support additional SIM card modules. The new embedded controller's two SIM card slots allow all vehicles or machines to stay networked when they travel across different countries over two types of communication bands.

Extensive I/O Interfaces

With 8 COM ports (RS-232/422/485), one GbE LAN, two PoE ports, four USB 3.0, and 32 DI/O for real-time inspection, monitoring and surveillance at the same time. ARES-5311 also comes with both HDMI and VGA outputs to connect multiple monitors.

Featured Products

FPC-8100

FPC-810X Series

ARES-1970

ARES-5311

Edge Computing

Industrial 4.0 Edge Server

Edge computing enhances automation process, improving efficiency by sharing work loads at the edge, ARBOR's edge system can reduce data traffic, speed up automation process, with the specially designed graphics adapter support allows high level AI inferencing also suitable for deep learning application, it can operate 24 hours a day to enhance quality assurance to its highest level and remains focused on the job, irrespective of external factors.

Reduced Latency

Edge AI eliminates the requirement to send huge amounts of data across networks or devices to reduce the network bandwidth usage and latency, and shorten response times. In the end, the main goal of edge computing is to provide as close to real-time business insights as possible.

Control and monitoring

Edge computing requires huge amounts of sensor data to be collected and analyzed need to be made in real-time. In a high-speed production line, latency must be kept to a minimum, and therefore doing the data processing closer to the manufacturing plant is highly valuable.

Minimal Bandwidth

Thousands of IoT devices have to transmit massive amounts of data to the cloud. Local devices can perform results in real-time before sending them back to the central data center, reducing network bandwidth usage and shortening response times.

ARES-1980

ARES-1980 is a compact-sized embedded controller designed with high-speed I/Os to improve production efficiency with Intel's 11th Generation Tiger Lake processors, enhancing your applications' AI performance. ARES-1980 fanless box PC is powered by Intel 11th gen processor with 3 sim card slots, 2 independent 4K display output, 4 USB3.2 Gen 2 and 33Mhz Digital I/O connector.

FPC-8109-G1

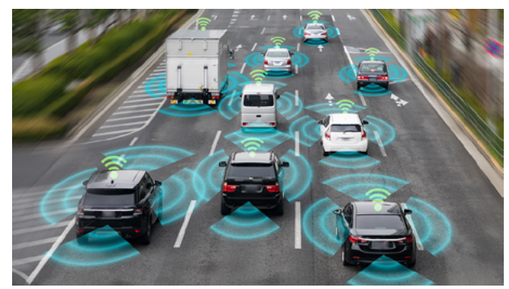
FPC-8109-G1 is powered by Intel 10th Gen processor with 2 independent display output, wide range DC input, power on/off delay control / configurable ignition power control and it supports up to 5x expansion slots. FPC-8109 G1 has integrated high speed I/O connectivity, including USB 3.2 Gen 1, 2.5GbE Ethernet, 5 PCI / PCIe slots. It also supports NVIDIA GTX-16 series up to 150W GPU for your applications.

Automatic Number-Plate Recognition

An electronic tolling company chose ARBOR's ARES-5310 as the engine for their ANPR cameras in every toll station of a national highway. The computer performs the video analytic algorithms for video streaming from a camera. With millions of transactions a day, the edge computer reduces the computing load at the central server, as well as the network bandwidth required for streaming HD video.

AI-Enabled Wafer Inspection

In Japan, a wafer manufacturer chose ARBOR to develop a highly customized machine vision computer with AI capabilities for their automated inspections in wafer manufacturing. With an Intel CPU, dual NVIDIA Tesla T4 GPU graphic cards and PoE frame grabber communication cards, the system fulfills the needs of training on thousands of images to detect deviations from the standard appearance to optimize the inspection process.



Autonomous Vehicles

A LiDAR expert startup company in the USA collaborated with ARBOR to develop their highly automated driving and autonomous driving system. To process the numerous sensor-collected data and thus to deliver high-resolution, three-dimensional information about the surrounding environment, they needed a robust system that was well-integrated with the optical sensors. What ARBOR offers is a highly customized vehicle computer to fulfill customers' needs. The edge system offers stringent performance to process an enormous amount of data and exchange the information with the central server.

Featured Products

			
FPC-9108-P6-G3	FPC-8109-G1	FPC-810X	ARES-1980

Machine Vision Controllers

Kick-start Zero Defects on the Production Line

Machine Vision technology can avoid mistakes occurring on production lines when the human brain gets distracted and tired. ARBOR' Machine Vision controller has developed highly reliable, low power systems to enable the swift, efficient and precise identification, and removal of faulty goods on a production line. Moreover, it can operate 24 hours a day to enhance quality assurance to its highest level and remains focused on the job, irrespective of external factors.

Secure Privacy

Today, all information and data are the most valuable assets. Consumers are cautious of their data. The companies that can deliver AI-enabled personalized features in their applications can make their users understand how their data is being collected and stored. It enhances the faith of the customers.

Manufacturing & Machine Vision

Edge AI and Machine Vision can ensure automated inspection accuracy within warehouse fulfillment and automating quality. Edge AI Computing can enable to extract insight and formulate actions near real-time.

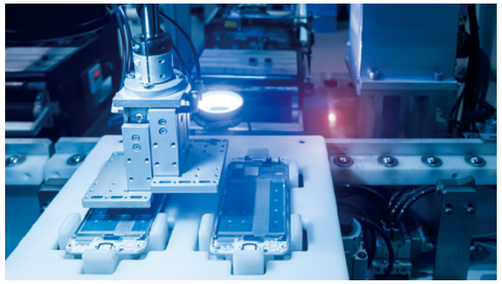
Reduced Costs & Defect

Defective parts are immediately removed from the early production stages while scaling down the amount of labor needed to operate the equipment. Edge AI eliminates the exorbitant expenses incurred on cloud-based data centers.

FPC-9108-P6-G3

ARBOR's Edge Computing Solutions are powered by Intel's 10th generation comet-lake platforms with the support of power efficient, embedded Core i9/i7/i5/i3, and Xeon processors. FPC-9108-P6-G3 Series is powered by Intel 10th generation processors with 6 GbE PoE, and NVIDIA RTX 30 series up 350W GPU for Deep Learning and Edge AI Inferencing.

ARBOR's Edge Computing Solutions are suitable for factory safety. Sensor data from motors and other key components are collected for preventive maintenance. FPC-9108-P6-G3 can process tens and hundreds of sensor data to determine optimal maintenance time to prevent system failures. The data can also be used to enhance efficiency to improve factory productivity.



Mobile Phone Inspection (AOI)

In China, a smartphone manufacturer replaced manual inspection for ARBOR's Machine Vision Controllers. The automated identification and removal of defective products helped to prevent bottlenecks. It also contributed to significant increases in speed, accuracy which resulted in notable cost savings.

Bottling Line Automation/ Food and Beverage Processing

A can manufacturing factory selected ARBOR's Embedded Controller with four Power-over-Ethernet 802.3af compatible LAN ports, ARES-1970-E, to connect smart cameras for scanning production lines and detect potential problems on glass bottles, caps, tags and packaging. Also, the ARES-1970 was also chosen for drug, food and beverage processing, tracing, and testing equipment in China.

The Efficient Check of Vehicles

Outside of the factory, ARBOR's Machine Vision Solutions are used by Eurotunnel for the efficient check of vehicles wishing to cross the channel. Incorporating number plate recognition, the machines are able to automatically display on-screen information that is directly relevant to individual passengers. This helps to keep waiting times down, as well as preventing those without a booking from entering.

Featured Products

			
FPC-9107 Series	ARES-1980	ARES-1970-E	ARES-1973 Series
High Performance Embedded Computer	High Performance Fanless Embedded Computers	Compact Fanless Embedded Computer	Performance Level Machine Vision Computer

Transportation Controllers

Internet of Vehicles on the Move

The Internet of Vehicles (IoV) is the inevitable technological convergence of mobile internet and the Internet of Things that enhances networked management of communication, safety within a vehicle fleet, with the advancement of high speed wireless connection, making data streaming faster for better passenger infotainment, digital signage capability and surveillance quality.

Reliable Connections

- Shock & vibration resistance
- M8/M12 connections
- Isolated RS-232/422/485 & DIO
- CAN BUS support
- Isolated NMEA 0183
- Fanless and wide temperature design

Uninterrupted Communication

- Wi-Fi & Bluetooth support
- WWAN SIM card socket (3G, HSUPA and LTE/4G)
- GPS support (Glonass, Galileo, BeiDou and QZSS)
- External SIM card socket

Reliable Power Safety

- Power ignition ON/OFF delay.
- Wide DC power input range
- Low voltage protection switch
- Reverse power input protection
- Overvoltage protection
- Supercapacitor power backup

Passenger Infotainment Service

- Location: USA
- Service & Product: ARTS-1450

Fleet Management

- Location: Belgium
- Service & Product: GT78-V

Road Safety with LiDAR Sensor

- Location: USA
- Service & Product: ODM Vehicle PC

Featured Products

FPC-9000-V1

ARTS-1450

ARTS-4770

GT78-VN

ARES-5310

Box PC Solutions for Railway Applications

Rugged Design for High Reliability

The railway transportation industry has been developed for ages. However, it never stopped, thanks to the advanced modern technology and rolling stock embedded controllers. As a leading embedded computing solutions provider, ARBOR Technology Corp. launches the latest robust box PC for vehicle. Its fanless and wide-temperature designs fulfill the needs of railway solutions.

Certification

ARBOR vehicle robust box PC is compliant with EN50155 regulation. The design of connectors provides the excellent capability of anti-vibration and waterproof with IEC61373 Category 1 Class B for vibration and shock protection.

Fanless & Wide Temp.

The fanless design makes dust accumulation avoidable. Also, it comes with a wide operating temp. range from -20 to 70°C and storage temperature range from -40 °C to 85 °C, it suitable for operations in harsh environments.

Expansion Slots

ARES-1970E series is supporting two mPCI-E slots for optional Wi-Fi / BT / 3G / 4G / GPS modules, one SIM card slot, one M.2 M-Key (2242) socket for storage module suitable for in-train surveillance.

In-Train Surveillance

- Location: Asia
- Service & Product: ARES-1970E-M12-NVR

In-train Passenger Information System

- Location: Asia
- Service & Product: ARES-1970E-M12-PISC

Featured Products

ARES-1970E-M12-NVR

ARES-1970E-M12-PISC

FPC-9108-P6-G3

FPC-9107-P6-G2

Ultra Slim Panel PCs

Limitless Versatility via ARM-Based Architecture

IoT-1000N is an 8” HMI based on the powerful Quad-Core ARM Cortex-A35 processor. The system runs on Android 8.1 and is designed to meet demanding applications where performance matters.

Rugged & Reliable

IoT-1000N features a high resolution display, capacitive touchscreen and computer into one easily deployable package. The panel maintains an IP-65 rating and is engineered to operate in high shock, vibration and temperature ranges (up to -10°C ~ 50°C / 14°F ~ 122°F).

Connectivity for Every Application

IoT-1000N is a true Internet of Things device, with standard wireless features such as 802.11 a/b/g/n/ac Wi-Fi, Bluetooth 4.0, GPS, 3G/4G connectivity and NFC to keep your systems and processes connected.

Rich I/O

The panel is equipped with 1 x RS-232 port, 1 x RS-232/422/485 port, 2 x High Speed USB ports, 8MP camera, integrated speakers and a built in microphone. IoT-1000N is unique in that it comes equipped with CAN BUS 2.0B and ignition detection capability, making it ideal for specific applications like fleet management.

Slim Panel PC Solutions

 8"	 10.1"	 10.1"
IOT-1000N	M1016	PC1017

Smart Industrial Power Backup Solution

Protect Your Factory Assets with Super-Capacitor Power Backup Solution

Safe, secure, uninterrupted power is crucial to today’s factory productivity, sudden power failure can damage equipment, corrupt data, disrupt production, an UPS usually have batteries inside, ARBOR’s power backup solution doesn’t, we use supercapacitors instead, guard against power glitches and short-term power loss or to allow for a graceful shutdown.

Smart Power Management Software

Smart Industrial Power Backup Solutions ships with backup power monitoring and management Software, providing user the ability to monitor SuperCapacitor Power Status, power output voltage status, as well as timer to shutdown and more.

Application Scenario: Flexible Implementations

With mounting bracket, Smart Power Backup System can be attached to panel systems to protect HMIs from power interruptions.

Smart Power BackupBoards can be integrated into computing systems or other devices to protect the system from power interruptions.

Featured Products

				
SCP-41/43	SiP-41B	SiP-42B	SiPB-1690A	SiPB-1690B

Industrial-Grade Panel PCs

Next-Generation HMI for Industry 4.0

ARBOR's ASLAN-W900 panels PCs combine Intel® Core i5 2.4GHz processor, multi-touch interface and flexible add-on capability to simplify dynamic control and display operations for efficient system productivity. Built with rugged chassis, either of stainless or SGCC steel, the ASLAN-W900 panel PCs deliver various sizes, durable, multi-tasking and scalable usability to fit perfect for industry 4.0 applications running in Windows and Linux OS systems.

Fanless Touch Panel

Featuring industrial components and fanless design for non-stop operation

Industrial-grade Ruggedness

IP65-rated and 7H anti-scratch panels for waterproof protection and dust resistance

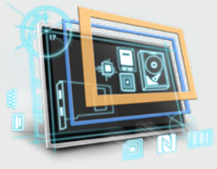
IIoT-ready Connections

Equipped with rich I/O, PCIe, RFID, NFC, front camera and barcode reader connectivity

Smarty Factory / Machine Automation

Intelligent Building / Transportation

Kiosk POS / Rugged Infotainment



Solution for Harsh Environment

ARBOR offers customized touch/kiosk panel PCs with rich I/O options, machine automation and OEM manufacturing for companies with unique requirements. For harsh environments as the oil platform, we can offer panel PCs with extensive I/O, compact size, wide temperature, high pressure, resistive touch screen, and ability to communicate with external peripherals.

Industrial HMI Solutions

 21.5" 16:9	 10.1" 16:10	 17" 5:4	 17" 5:4
ASLAN-W922C-IP	ASLAN-W810C-2930G2	ASLAN-917R	LYNC-715-4200G4

Industrial-Grade Panel PCs

Multiple Expansions and High-Performance

ARBOR offers customized touch/kiosk panel PCs with rich I/O options, open frames for automation system integration, process manufacturing, and HMI interface for companies with unique requirements. We have built computers and industrial-grade PC for some of the companies in oil platforms, agriculture, and food factories worldwide.

Intel's 10nm Elkhart Lake processor

Provide best-in-clsass CPU performance to support IOT applications requirements.and up to 40% CPU performance in creases compared to Apollo Lake.

I/O Interface

iTC series panel PC equipped with 1x2.5GbE, 4xUSB 3.2, 8-bit DI/O, 2xRS232/422/485, DisplayPort, DVI, and M.2 SSD for multiple expansion.

Integrate with Power Backup System

Smart Power Backup System can be attached to iTC series products to protect panel PC from unexpected power interruptions.

Industrial HMI Solutions

 10.1" 16:10	 12.1" 4:3	 15" 4:3
iTC-1101C	iTC-1121R	iTC-1150R

Multi-Display Controller

Stunning 4K / UHD Video Wall Solution

Powered by Intel® Core-i series processors / AMD Ryzen SoC to ensure high performance for multitasking applications, ARBOR's multi-display controllers bring the powerful performance to support 4K UHD video playback, delivering an immersive viewing experience with up to six displays.

Independent 6 Displays from One Small Controller

ELIT-1900 is designed with 6 built-in HDMI outputs that provide a vibrant visual experience with 4K graphics and complex multimedia features within a slim form factor.

Stunning 4K Ultra HD Performance

ELIT-1900 is powered with a custom AMD Radeon™ discrete embedded graphics board for smooth playback with your ultra high definition content.

Long-Lasting Performance

To ensure noise-free operation and long-term, 24/7 reliability for uninterrupted content delivery, ELIT-1270 carries a fanless design with enhanced thermal structure and ventilation management.

Rich I/O Design

ELIT-1270 offers rich I/O connectivity with multiple USB 3.0 ports, RS-232/422/485, mPCIe, 4 Display Ports up to 4K resolution and M.2 sockets for storage and optional Wi-Fi or I/O expansion support.

Digital Signage for Airports

One of the busiest aviation hubs in Asia, Incheon Airport, used ARBOR's digital signage solutions to achieve greater durability and stability for both their flight information and baggage control systems. The flexibility of ARBOR's solutions allows Incheon Airport to provide quick and accurate flight information services for passengers, resulting in better customer satisfaction.

Digital Signage for Vehicles

ARBOR's expertise in transportation computers are used as digital signage in Italy coach buses. In-vehicle infotainment controllers allow passengers to access media and infotainment content or other services from the convenience of a mobile app.

Digital Signage for Retails

ARBOR's digital signage players support multiple display outputs without sacrificing performance. From restaurant menus to window displays, customers around the world have relied on ARBOR's versatile digital signage solutions for retail business needs such as library information boards in Japan and supermarket signage in Europe.

Featured Products

				
ELIT-1270	ELIT-1930	IEC-3900	IEC-3300	IEC-3390
AMD Ryzen	Intel® Coffee Lake	Intel® Coffee Lake / AMD Ryzen	Intel® Celeron	ARMv8 64-bit Processor
4 Display out	3 Display out	3 Display out	2 Display out	2 Display out

Selection Guide

Automation Computers




Model	FPC-8108W-G1	FPC-8109-G1	FPC-8107	FPC-8103
Dimensions (W x H x D)	225 x 190 x 292 mm	225 x 190 x 292 mm	225 x 140 x 292 mm	225 x 120 x 292 mm
CPU	10th Gen Intel® Xeon® Core™ i9/i7/ i5/i3 processor in LGA1200 socket	10th Gen Intel® Xeon® Core™ i9/i7/ i5/i3 processor in LGA1200 socket	10th Gen Intel® Xeon® Core™ i9/i7/ i5/i3 processor in LGA1200 socket	10th Gen. Intel Core™ i9/i7/i5/i3 processor in LGA1200 socket
Chipset	W480E	Intel H420E (W480E Optional)	Intel H420E (W480E Optional)	H420E
Memory	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM
Video	1 x HDMI, 1 x VGA, 1 x DVI	1 x HDMI, 1 x VGA, 1 x DVI	1 x HDMI, 1 x VGA, 1 x DVI	1 x HDMI 1 x VGA 1 x DVI-D
Audio	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out
Ethernet	3 x RJ-45 ports for GbE	3 x RJ-45 ports for GbE	3 x RJ-45 ports for GbE	3 x RJ-45 ports for GbE
Mass Storage	1 x CFast socket 2 x 2.5" drive bays	1 x CFast socket 2 x 2.5" drive bays	1 x CFast socket 2 x 2.5" drive bays	1 x Cfast 2 x 2.5" drive bays
USB 2.0	2	2	2	2
USB 3.0/2.0	6	6	6	6
RS-232	4	4	4	4
RS-232/422/485	2	2	2	2
LPT**	Yes	Yes	Yes	Yes
Digital I/O**	8-in/8-out	8-in/8-out	8-in/8-out	8-in/8-out
Expansion Bus	3 x PCIe x4, 1 x PCIe x16 1 x mPCIe (full), 1 x SIM, 1 x M.2-E key 2230 1 x M.2 B key (2242/3052/2280) 1 x full-size Mini-card	4 x PCI, 1 x PCIe x16 1 x SIM, 1 x M.2-E key 2230 1 x full-size Mini-card	1 x PCIe x16 2 x PCI slot (FPC-8107-1E2P) 3 x PCI slot (FPC-8107-3P) 1 x M.2 E key (2230) 1 x full-size Mini-card	2 x PCI, 1 x mPCIe (full), 1 x SIM, 1 x M.2-E key 2230
Power Input	DC 9~36V/Ignition	DC 9~36V/Ignition	DC 9~36V/Ignition	DC 9~36V/Ignition
Operating Temperature	-20 ~ 70° C (-4 ~ 158° F) (w/35W TDP CPU, fanless) -20 ~ 55° C (-4 ~ 131° F) (w/65W TDP CPU, fanless)	-20 ~ 70° C (-4 ~ 158° F) (w/35W TDP CPU, fanless) -20 ~ 55° C (-4 ~ 131° F) (w/65W TDP CPU, fanless)	-20 ~ 70° C (-4 ~ 158° F) (w/ 35W TDP CPU, fanless) -20 ~ 55° C (-4 ~ 131° F) (w/ 65W TDP CPU, fanless)	-20 ~ 70° C (35W TDP) -20 ~ 55° C (65W TDP)

* Including one outside accessible drive bay
** For LPT and digital I/O, only either one of them is available.
Wide Temperature Range




Model	FPC-8102	FPC-8101	FPC-8100	FPC-9100-V1
Dimensions (W x H x D)	225 x 120 x 292 mm	225 x 120 x 292 mm	225 x 90 x 292 mm	225 x 90 x 292 mm
CPU	10th Gen. Intel Core™ i9/i7/i5/i3 processor in LGA1200 socket	10th Gen. Intel Core™ i9/i7/i5/i3 processor in LGA1200 socket	10th Gen. Intel Core™ i9/i7/i5/i3 processor in LGA1200 socket	Intel® Xeon®/10th generation Core™ i9/i7/i5/i3 (LGA1200 socket)
Chipset	H420E	H420E	H420E	W480E
Memory	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2933 MHz SDRAM up to 64GB (ECC/ Non-ECC)
Video	1 x HDMI 1 x VGA 1 x DVI-D	1 x HDMI 1 x VGA 1 x DVI-D	1 x HDMI 1 x VGA 1 x DVI-D	1 x VGA, 1 x DVI-D
Audio	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out
Ethernet	3xGbE	3xGbE	3xGbE	3 x GbE, 4 x M12 PoE (af)
Mass Storage	1 x Cfast 2 x 2.5" drive bays	1 x Cfast 2 x 2.5" drive bays	1 x Cfast 2 x 2.5" drive bays	1 x CFast, 2 x 2.5" Drive bays (Max.)*
USB 2.0	2	2	2	2
USB 3.0/2.0	6	6	6	4
RS-232	4	4	4	-
RS-232/422/485	2	2	2	2
LPT*	Yes	Yes	Yes	Yes
Digital I/O*	8-in/8-out	8-in/8-out	8-in/8-out	8-in/8-out
Expansion Bus	1 x PCIe x8, 1 x PCIe x16, 1 x mPCIe (full), 1 x SIM, 1 x M.2-E key 2230	1 x PCI, 1 x PCIe x16 1 x mPCIe (full), 1 x SIM, 1 x M.2-E key 2230	1 x mPCIe (full), 1 x SIM, 1 x M.2-E key 2230	2 x mPCIe (full), 3 x SIM 1 x M.2-E key 2230 1x M.2-B key 2242 1 x M.2 B key (2242/2252/2280)
Power Input	DC 9~36V/Ignition	DC 9~36V/Ignition	DC 9~36V/Ignition	DC 9~36V/Ignition
Operating Temperature	-20 ~ 70° C (35W TDP) -20 ~ 55° C (65W TDP)	-20 ~ 70° C (35W TDP) -20 ~ 55° C (65W TDP)	-20 ~ 70° C (35W TDP) -20 ~ 55° C (65W TDP)	-40 ~ 70° C, ambient w/ air flow, w/ 35W TDP CoreTM i CPU

* For LPT and digital I/O, only either one of them is available.
Wide Temperature Range

Automation Computers




Model	FPC-9002-P6	FPC-9002-L2U4	FPC-9002-P6-G1	FPC-9000-V1
Dimensions (W x H x D)	225 x 120 x 292 mm	225 x 120 x 292 mm	225 x 120 x 292 mm	225 x 90 x 267 mm
CPU	Intel® Xeon® E3/ 6th &7th generation Core™i7/i5/i3 (LGA1151 socket)	Intel® Xeon® E3/ 6th &7th generation Core™i7/i5/i3 (LGA1151 socket)	Intel® Xeon® E3/ 6th &7th generation Core™i7/i5/i3 (LGA1151 socket)	Intel® Xeon® E3/ 6th &7th generation Core™i7/i5/i3 (LGA1151 socket)
Chipset	C236	C236	C236	C236
Memory	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM
Video	1 x DisplayPort 1 x VGA, 1 x DVI-D, 1 x HDMI	1 x DisplayPort 1 x VGA, 1 x DVI-D, 1 x HDMI	1 x DisplayPort 1 x VGA, 1 x DVI-D, 1 x HDMI	1 x VGA, 1 x DVI-D
Audio	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out
Ethernet	3 x GbE 6 x PoE (af)	5 x GbE	3 x GbE 6 x PoE (af)	3 x GbE 4 x M12 PoE (af)
Mass Storage	1 x CFast, 2 x 2.5" Drive bays (Max.)*	1 x CFast, 2 x 2.5" Drive bays (Max.)*	1 x CFast, 2 x 2.5" Drive bays (Max.)*	1 x CFast, 2 x 2.5" Drive bays (Max.)*
USB 2.0	-	-	-	-
USB 3.0/2.0	6	10	6	6
RS-232	-	2	-	-
RS-232/422/485	2	2	2	2
LPT**	Yes	Yes	Yes	-
Digital I/O**	8-in/8-out	8-in/8-out	8-in/8-out	Isolated 4-in/4-out
Expansion Bus	1 x PCIe x8, 1 x PCIe x16, 2 x mPCIe, 1 x SIM	1 x PCIe x8, 1 x PCIe x16, 2 x mPCIe (half & full), 1 x SIM	1 x PCIe x4, 1 x PCIe x16, 2 x mPCIe (1 half & 1 full), 1 x SIM	3 x mPCIe (1 half & 2 full) 3 x SIM 1 x M.2 B-Key 3042
Power Input	DC 19~36V/Ignition	DC 9~36V/Ignition	DC 19~36V/Ignition	DC 9~36V/Ignition
Operating Temperature	-20~55° C (w/ 35W TDP CPU, Smart Fan)	-20~55° C (w/ 35W TDP CPU, Fanless)	-20~45° C	-40 ~ 70° C, ambient w/ air flow, w/ eon™ E3-1268L-V5t

* Including one outside accessible drive bay
** For LPT and digital I/O, only either one of them is available.
Wide Temperature Range





Model	FPC-7914-HDBT	FPC-7913	FPC-7912	FPC-7911	FPC-7910
Dimensions (W x H x D)	195 x 90 x 268 mm	195 x 110 x 268 mm	195 x 110 x 268 mm	195 x 110 x 268 mm	195 x 75 x 268 mm
CPU	6th/7th Gen. Intel® Core™ i7/i5/i3 (LGA1151 socket)	6th/7th Gen. Intel® Core™ i7/i5/i3 (LGA1151 socket)	6th/7th Gen. Intel® Core™ i7/i5/i3 (LGA1151 socket)	6th/7th Gen. Intel® Core™ i7/i5/i3 (LGA1151 socket)	6th/7th Gen. Intel® Core™ i7/i5/i3 (LGA1151 socket)
Chipset	H110	H110	H110	H110	H110
Memory	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM
Video	1 x HDMI, 1 x DVI-D	1 x VGA, 1 x DVI-D, 1 x HDMI	1 x VGA, 1 x DVI-D, 1 x HDMI	1 x VGA, 1 x DVI-D, 1 x HDMI	1 x VGA, 1 x DVI-D, 1 x HDMI
Audio	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out
KB/MS	-	-	-	-	-
Ethernet	3 x GbE 1 x RJ45 w/ HDBaseT Transmitter	3 x GbE	3 x GbE	3 x GbE	3 x GbE
Mass Storage	2 x 2.5" drive bay 1 x CFast	2 x 2.5" drive bay 1 x CFast	2 x 2.5" drive bay 1 x CFast	2 x 2.5" drive bay 1 x CFast	2 x 2.5" drive bay 1 x CFast
USB 2.0	6	6	6	6	6
USB 3.0/2.0	4	4	4	4	4
RS-232	2	2	2	2	2
RS-232/422/485	2	2	2	2	2
LPT*	Yes	Yes	Yes	Yes	Yes
Digital I/O*	8-in/8-out	8-in/8-out	8-in/8-out	8-in/8-out	8-in/8-out
Expansion Bus	1 x mPCIe (full), 1 x SIM	2 x PCI, 1 x mPCIe (full), 1 x SIM	1 x PCIe x8, 1 x PCIe x16, 1 x mPCIe (full), 1 x SIM	1 x PCI, 1 x PCIe x16, 1 x mPCIe (full), 1 x SIM	1 x mPCIe (full), 1 x SIM
Power Input	DC 19 ~ 36V	DC 9 ~ 36V	DC 9 ~ 36V	DC 9 ~ 36V	DC 9 ~ 36V
Operating Temperature	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C

* For LPT and digital I/O, only either one of them is available.

Automation Computers




Model	FPC-7903	FPC-7902	FPC-7901	FPC-7900
Dimensions (W x H x D)	225 x 120 x 292 mm	225 x 120 x 292 mm	225 x 120 x 292 mm	225 x 90 x 292 mm
CPU	6th/7th Gen. Intel® Xeon® E3 / Core™ i7/i5/i3 (LGA1151 socket)	6th/7th Gen. Intel® Xeon® E3 / Core™ i7/i5/i3 (LGA1151 socket)	6th/7th Gen. Intel® Xeon® E3 / Core™ i7/i5/i3 (LGA1151 socket)	6th/7th Gen. Intel® Xeon® E3 / Core™ i7/i5/i3 (LGA1151 socket)
Chipset	C236	C236	C236	C236
Memory	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM
Video	1 x DisplayPort 1 x VGA, 1 x DVI-D, 1 x HDMI	1 x DisplayPort 1 x VGA, 1 x DVI-D, 1 x HDMI	1 x DisplayPort 1 x VGA, 1 x DVI-D, 1 x HDMI	1 x DisplayPort 1 x VGA, 1 x DVI-D, 1 x HDMI
Audio	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out
KB/MS	-	-	-	-
Ethernet	3 x GbE	3 x GbE	3 x GbE	3 x GbE
Mass Storage	1 x CFast, 2 x 2.5" Drive bays (Max.)*	1 x CFast, 2 x 2.5" Drive bays (Max.)*	1 x CFast, 2 x 2.5" Drive bays (Max.)*	1 x CFast, 2 x 2.5" Drive bays (Max.)*
USB 2.0	-	-	-	-
USB 3.0/2.0	6	6	6	6
RS-232	4	4	4	4
RS-232/422/485	2	2	2	2
LPT**	Yes	Yes	Yes	Yes
Digital I/O**	8-in/8-out	8-in/8-out	8-in/8-out	8-in/8-out
Expansion Bus	2 x PCI, 2 x mPCIe (1 half & 1 full), 1 x SIM	1 x PCIe x8, 1 x PCIe x16, 2 x mPCIe (1 half & 1 full), 1 x SIM	1 x PCI, 1 x PCIe x16 2 x mPCIe (1 half & 1 full), 1 x SIM	2 x mPCIe (1 half & 1 full), 1 x SIM
Power Input	DC 9~36V/Ignition	DC 9~36V/Ignition	DC 9~36V/Ignition	DC 9~36V/Ignition
Operating Temperature	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C

* Including one outside accessible drive bay
** For LPT and digital I/O, only either one of them is available.

NEW




Model	ARES-530WT	ARES-5310	ARES-5311	EAGLE-8701
Dimensions (W x H x D)	70 x 160 x 125 mm	70 x 180 x 125 mm	70 x 180 x 125 mm	90 x 285 x 230 mm
CPU	Intel® J1900 / E3845 Quad-Core™ 2GHz / 1.91GHz	Intel® Atom™ x7 E3950 / Celeron® N3350	Intel® Atom™ x7 E3950 / Celeron® N3350	4th Gen. Intel® Core™ i7-4770TE 2.3GHz / i7-4790S 3.2GHz / i7-4770S 3.1GHz / i5-4590T 2GHz (LGA 1150 socket)
Chipset	SoC	SoC	SoC	Q87
Memory	4GB DDR3L installed for J1900 4GB WT DDR3L installed for E3845	1 x DDR3L SO-DIMM	1 x DDR3L SO-DIMM	2 x DDR3L SO-DIMM
Video	VGA, DVI-D	1 x VGA, 1 x HDMI	1 x VGA, 1 x HDMI	DisplayPort
Audio	Line-out	Mic-in/Line-out	Mic-in/Line-out	-
KB/MS	-	-	-	-
Ethernet	2 x GbE	3 x GbE (-E3950A, -N3350A) 1 x GbE, 2 x PoE (-E3950P, -N3350P)	1 x GbE 2 x PoE	2 x GbE 6 x PoE (af)
Mass Storage	2 x mSATA	64GB eMMC, 1 x 2.5" drive bay (-E3950A, -N3350A) 1 x M.2 M-Key 2242 (-E3950P, -N3350P)	64GB eMMC, 1 x M.2 M-Key 2242	2 x 2.5" drive bay
USB 2.0	5	-	-	2
USB 3.0/2.0	1 (USB 3.0 only)	4	4	6
RS-232	-	-	-	-
RS-232/422/485	1 x Isolated RS-232/422 1 x Isolated RS-422/485	4	6 x RS-232/422/485 3 x RS-232/485	1
LPT*	-	-	-	-
Digital I/O*	Isolated 4-in/4-out	8 bit (-E3950A, -N3350A) 16-in/16-out (-E3950P, -N3350P)	16-in/16-out	Isolated 8-in/8-out
Expansion Bus	1 x mPCIe (half) w/o USB signal	2 x mPCIe (full) 1 x SIM	2 x mPCIe (full) 2 x SIM	1 x PCIe x16
Power Input	DC 9 ~ 36V	DC 9 ~ 36V/Ignition	DC 9 ~ 36V/Ignition	DC 24V
Operating Temperature	-20 ~ 70° C (J1900) -40 ~ 85° C (E3845)	-40 ~ 70° C	-20 ~ 70° C	-10 ~ 55° C

* For LPT and digital I/O, only one of them can be active at a time.
Wide Temperature Range

Automation Computers




Model	ARES-1231	ARES-1230	ARES-1230-E	ARES-1230-POS
Dimensions (W x H x D)	240 x 60 x 126 mm	180 x 25 x 130 mm	180 x 40 x 130 mm	180 x 40 x 130 mm
CPU	Intel® N2930 Quad-Core™ 2.16GHz	Intel® N2930 Quad-Core™ 2.16GHz	Intel® N2930 Quad-Core™ 2.16GHz	Intel® N2930 Quad-Core™ 2.16GHz
Chipset	SoC	SoC	SoC	SoC
Memory	4GB DDR3L installed	1 x DDR3L SO-DIMM	1 x DDR3L SO-DIMM	1 x DDR3L SO-DIMM
Video	DVI-I, HDMI	DVI-I, HDMI	DVI-I, HDMI	DVI-I, HDMI
Audio	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out
KB/MS	PS2	-	-	-
Ethernet	2 x GbE	2 x GbE	2 x GbE	2 x GbE
Mass Storage	1 x mSATA, 1 x 2.5" Drive bay	1 x mSATA	1 x mSATA	1 x mSATA
USB 2.0	5	1	3	1
USB 3.0/2.0	1	1	1	1
RS-232	-	-	-	-
RS-232/422/485	4 x RS-232/422/485 8 x RS-232/485	-	2 x RS-232/485	2 x RS-232/422/485 4 x RS-232/485
LPT	-	-	-	-
Digital I/O	16-in/16-out	-	4-in/4-out	-
Expansion Bus	1 x mPCIe (half)	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full), 1 x SIM
Power Input	DC 12V	DC 12V	DC 9~36V	DC 12V
Operating Temperature	-20 ~ 60° C	-20 ~ 70° C	-20 ~ 70° C	-20 ~ 70° C

Wide Temperature Range




Model	ARES-1970	ARES-1970-E	ARES-1970-4P	ARES-1970-4E
Dimensions (W x H x D)	265 x 62 x 141 mm	112 x 272 x 141 mm	192 x 220 x 200 mm	192 x 220 x 200 mm
CPU	6th Gen. Intel® Core™ i7-6600U/ i5-6300U/i3-6100U	6th Gen. Intel® Core™ i7-6600U/ i5-6300U/i3-6100U	6th Gen. Intel® Core™ i7-6600U/ i5-6300U/i3-6100U	6th Gen. Intel® Core™ i7-6600U/ i5-6300U/i3-6100U
Chipset	SoC	SoC	SoC	SoC
Memory	4GB DDR4 Installed	4GB DDR4 Installed	1 x DDR4 SO-DIMM	1 x DDR4 SO-DIMM
Video	HDMI VGA	HDMI VGA	HDMI VGA	HDMI VGA
Audio	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out
KB/MS	-	-	-	-
Ethernet	2 x GbE	2 x GbE 4 x PoE (af)	2 x GbE	2 x GbE
Mass Storage	1 x mSATA	1 x mSATA, 2 x front accessible 2.5" drive bay	1 x mSATA, 2 x SATA-III	1 x mSATA, 2 x SATA-III
USB 2.0	2	2	2	2
USB 3.0/2.0	4	4	4	4
RS-232	-	-	-	-
RS-232/422/485	4 x RS-232/422/485 4 x RS-232/485	4	2	2
LPT	-	-	-	-
Digital I/O	-	16-in/16-out	-	-
Expansion Bus	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full), 4 x PCI	2 x mPCIe (1 half & 1 full), 4 x PCIe
Power Input	DC 12~28V	DC 19~36V	DC 12~28V	DC 12~28V
Operating Temperature	-20 ~ 70° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C

Wide Temperature Range

Automation Computers

NEW

Model	ARES-1980	ARES-1973H-2WD8F	ARES-1973C-4898	ARES-1973C-48C8	ARES-1965-2WD4
Dimensions (W x H x D)	210 x 70 x 180 mm	230 x 90 x 155 mm	254 x 94 x 170 mm	254 x 94 x 170 mm	90 x 195 x 140 mm
CPU	Soldered onboard Intel i7/ i5/ i3 Processor	6 th/7th Gen. Intel® Core™ i7/i5/i3 / Celeron® Processor (LGA1151 socket)	6 th/7th Gen. Intel® Core™ i7/i5/i3 / Celeron® Processor (LGA1151 socket)	6th/7th Gen. Intel® Core™ i7/i5/i3 / Celeron® Processor (LGA1151 socket)	6 th/7th Gen. Intel® Core™ i7/i5/i3 / Celeron® Processor
Chipset	SoC	H110	C236	C236	SoC
Memory	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	1 x DDR4 SO-DIMM
Video	1 x HDMI 2.0b, 1 x DisplayPort 1.4, 1 x DVI-D	1 x DisplayPort 1.2, 1 x VGA	1 x DisplayPort 1.2, 1 x VGA	1 x DisplayPort 1.2, 1 x VGA	1 x VGA
Audio	-	-	-	-	-
KB/MS	-	-	-	-	-
Ethernet	2 x PoE(af) 1 x 2.5GbE	1 x GbE 4 x PoE (af)	9 x GbE	1x GbE 2 x 10GbE	1 x GbE 4 x PoE (af)
Mass Storage	1 x 2.5" drive bay, 1 x M.2 M-Key 2242/2280	1 x 2.5" drive bay, 1 x M.2 M-Key 2242/2280	1 x 2.5" drive bay, 1 x M.2 M-Key 2242/2280	1 x 2.5" drive bay, 1 x M.2 M-Key 2242/2280	1 x mSATA 1 x 2.5" drive bay
USB 2.0	1 (internal)	5 (incl.1 x internal)	5 (incl.1 x internal)	5 (incl.1 x internal)	1 x internal
USB 3.0/2.0	4 x 3.2	4	4	4	4
RS-232	2	-	2	2	2
RS-232/422/485	2 x RS232 2 x RS232/422/485	2	2	2	-
LPT	-	-	-	-	-
Digital I/O	8-in/8-out	Isolated 16-in/16-out	4-in/4-out	8 bit	Isolated 16-in/16-out
Expansion Bus	1 x mPCIe, 1 x M.2 B-Key 2242/3042/3052 3 x SIM	M.2 M-Key 2242/2280	M.2 M-Key 2242/2280	M.2 M-Key 2242/2280	1 x mPCIe (full)
Power Input	DC 9 ~ 36V	DC 12 ~ 24V	DC 12 ~ 24V	DC 12 ~ 24V	DC 9 ~ 36V
Operating Temperature	-20 ~ 60 ° C	-20 ~ 50 ° C	-20 ~ 50 ° C	-20 ~ 50 ° C	0 ~ 55 ° C

Transportation Computers

Model	ARTS-4770	ARTS-3672W	ARTS-2870	ARTS-1450	AES-5204
Dimensions (W x H x D)	270 x 80 x 180 mm	255 x 90 x 208 mm	270.4 x 110 x 240 mm	200 x 54 x 180 mm	155 x 125 x 70 mm
CPU	3rd Gen. Intel® Core™ i7-3517UE 1.7GHz	2nd Gen. Intel® Core™ i7-2610UE 1.5GHz	4th Gen. Intel® Core™ i5-4402E 1.6GHz	Intel® Atom™ E3845 Quad-Core™ 1.91GHz	-
Chipset	QM77	QM67	QM87	SoC	-
Memory	1 x DDR3 SO-DIMM	1 x DDR3 SO-DIMM	1 x DDR3L SO-DIMM	1 x DDR3L SO-DIMM	-
Video	VGA, DVI-D	VGA, DVI-D	VGA, 2 x DVI-D	VGA, DVI-D	-
Audio	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	-
KB/MS	-	-	-	-	-
Ethernet	2 x GbE 4 x PoE(af)	1 x GbE 2 x M12 GbE	4 x GbE	1 x GbE	1 x GbE, 4 x PoE (af) 1 x SFP
Mass Storage	2 x outside accessible 2.5" drive bays, 1 x mSATA	2 x 2.5" Drive bays, 1 x SATA DOM, 1 x CFast	2 x 2.5" Drive bays*, 1 x mSATA	1 x 2.5" Drive bay, 1 x mSATA	-
USB 2.0	-	4	4	2	-
USB 3.0/2.0	4	-	2	1	-
RS-232	1	-	-	2	--
RS-232/422/485	1	1 x RS-232/485 3 x RS-485	8 x NMEA 0183 2 x RS-232/422/485	2 x RS-232/485	1 x RS-485
LPT	-	-	-	-	-
Digital I/O	4-in/4-out	6-in/4-out	4-in/4-out	4 in/4 out	-
Expansion Bus	3 x mPCIe (1 half & 2 full), 2 x SIM	2 x mPCIe (1 half & 1 full), 1 x SIM	1 x mPCIe (half)	3 x mPCIe (1 half & 2 full) 2 x SIM	-
Power Input	DC 9 ~ 36V	DC 9 ~ 36V	DC 24V	DC 9 ~ 36V	DC 9 ~ 36V
Operating Temperature	-20 ~ 55° C	-40 ~ 70° C	-25 ~ 55° C	-40 ~ 70° C	-40 ~ 75° C

* Including one outside accessible drive bay
Wide Temperature Range

Transportation Computers

NEW

NEW

Model	FPC-9107-P6-G2	FPC-9107-L2U4-G2
Dimensions (W x H x D)	180 x 250 x 320 mm	180 x 250 x 320mm
CPU	10th Gen. Intel Xeon®Core™ i9/i7/i5/i3 processor in LGA1200 socket	10th Gen. Intel Xeon®Core™ i9/i7/i5/i3 processor in LGA1200 socket
Chipset	W480E	W480E
Memory	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2933 MHz SDRAM up to 64GB	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2933 MHz SDRAM up to 64GB
Video	1 x HDMI, 1 x VGA	1 x HDMI, 1 x VGA
Audio	Mic-in/Line-out	Mic-in/Line-out
Ethernet	2xGbE/2.5GbE, 6xPoE (af)	4xGbE/2.5GbE
Mass Storage	2 x 2.5" drive bays	2 x 2.5" drive bays
USB 2.0	1	1
USB 3.0/2.0	2	6
RS-232	2 (Optional)	2 (Optional)
RS-232/422/485	2	2
LPT**	Yes	Yes
Digital I/O**	8-in/8-out	8-in/8-out
Expansion Bus	1 x PCIe x 4, 2 x PCIe x16 1 x mPCIe (full) 1 x SIM 1 x M.2 B key (2242/3052/2280) 1 x M.2-E key 2230	1 x PCIe x 4, 2 x PCIe x16 1 x mPCIe (full) 1 x SIM 1 x M.2 B key (2242/3052/2280) 1 x M.2-E key 2230
Power Input	DC 9~36V for system DC 12-36V for GPU card Ignition	DC 9~36V for system DC 12-36V for GPU card Ignition
Operating Temperature	80W TDP CPU : -20 ~ 50° C (-4 ~ 122° F) 65W TDP CPU : -20 ~ 55° C (-4 ~ 131° F) w/ NVIDIA® Tesla T4 : -20 ~ 50° C (-4 ~ 122° F) w/ NVIDIA® RTX-3070 : -20 ~ 45° C (-4 ~112° F)	80W TDP CPU : -20 ~ 50° C (-4 ~ 122° F) 65W TDP CPU : -20 ~ 55° C (-4 ~ 131° F) w/ NVIDIA® Tesla T4 : -20 ~ 50° C (-4 ~ 122° F) w/ NVIDIA® RTX-3070 : -20 ~ 45° C (-4 ~112° F)

* Including one outside accessible drive bay
** For LPT and digital I/O, only either one of them is available.

NEW

NEW

Model	FPC-9108-L2U4-G3	FPC-9108-P6-G3
Dimensions (W x H x D)	180 x 250 x 320 mm	180 x 250 x 320mm
CPU	10th Gen. Intel Xeon®Core™ i9/i7/i5/i3 processor in LGA1200 socket	10th Gen. Intel Xeon®Core™ i9/i7/i5/i3 processor in LGA1200 socket
Chipset	W480E	W480E
Memory	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2933 (i9/ i7) / 2666(i5/ i3) / 2400 MHz (Pentium/ Celeron CPU) SDRAM up to 64GB (ECC / Non-ECC)	2 x 260-pin DDR4 SO-DIMM sockets, supporting 2933 (i9/ i7 CPU) / 2666(i5/ i3 CPU) / 2400 MHz (Pentium/ Celeron CPU) SDRAM up to 64GB (ECC / Non-ECC)
Video	1 x HDMI, 1 x VGA	1 x HDMI, 1 x VGA
Audio	Mic-in/Line-out	Mic-in/Line-out
Ethernet	3 x RJ-45 ports for GbE 1 x RJ-45 port for 2.5 GbE	2 x RJ-45 ports for GbE/2.5GbE 6 x RJ-45 ports for PoE (Power budget 60W)
Mass Storage	2 x 2.5" drive bays	2 x 2.5" drive bays
USB 2.0	2	2
USB 3.0/2.0	6	2
RS-232	2 (Optional)	0
RS-232/422/485	2	2
LPT**	Yes	Yes
Digital I/O**	8-in/8-out	8-in/8-out
Expansion Bus	1 x PCIe x16 slot for 350W GPU card 3 x PCIe slots 1 x mini-PCI Express 1 x M.2 E key (2230) 1 x M.2 B key (2242 / 3052 / 2280)	3 x PCI, 1 x PCIe x16 1 x mini-PCI Express 1 x M.2 E key (2230) 1 x M.2 B key (2242 / 3052 / 2280)
Power Input	DC 12~36V for system DC 24-36V for graphic cards power support	DC 12 ~ 36V input (w/ 2-pin DC input terminal block) DC 24 ~ 36V input (w/ 4-pin DC input terminal block for graphic cards power support)
Operating Temperature	80W TDP CPU : -20 ~ 50° C (-4 ~ 122° F) 65W TDP CPU : -20 ~ 55° C (-4 ~ 131° F) w/ NVIDIA® Tesla T4 : -20 ~ 50° C (-4 ~ 122° F) w/ NVIDIA® RTX-3070 : -20 ~ 45° C (-4 ~112° F)	80W TDP CPU : -20 ~ 50° C (-4 ~ 122° F) 65W TDP CPU : -20 ~ 55° C (-4 ~ 131° F) w/ NVIDIA® Tesla T4 : -20 ~ 50° C (-4 ~ 122° F) w/ NVIDIA® RTX-3070 : -20 ~ 45° C (-4 ~112° F)

* Including one outside accessible drive bay
** For LPT and digital I/O, only either one of them is available.

Multi-Display Terminals





Model	ELIT-1930	ELIT-1900	ELIT-1850	ELIT-1270-1807F	ELIT-1270-1605
Dimensions (W x H x D)	210 x 70 x 190 mm	280 x 47 x 200 mm	193 x 50 x 170 mm	240 x 41 x 204 mm	240 x 50 x 204 mm
CPU	8th Gen. Intel® Core™ i7/i5/i3	6th Gen. Intel® Core™ i-series	5th Gen. Intel® Core™ i7-5650U 2.2GHz / Core™ i3-5010U 2.1GHz	AMD Ryzen™ Embedded V1807B	AMD Ryzen™ Embedded V1605B
Chipset	Intel Q370	Intel QM170	SoC	AMD SoC	AMD SoC
Memory	2 x DDR4 SO-DIMM	1 x DDR4 SO-DIMM	1 x DDR3L SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM
Video	1 x HDMI 1 x DisplayPort 1 x DVI-D	6 x HDMI	1 x HDMI 1 x DisplayPort 1 x DVI-D	4 x DisplayPort	4 x DisplayPort
Resolution	3840 x 2160	3840 x 2160	3840 x 2160	3840 x 2160	3840 x 2160
Audio	-	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out	Mic-in/Line-out
KB/MS	1	-	-	-	-
Ethernet	2 x GbE	2 x GbE	2 x GbE	2 x GbE	2 x GbE
Mass Storage	1 x M.2 M-Key 2280	1 x 2.5" Drive bay	1 x 2.5" Drive bay	1 x M.2 M-Key 2242/2280	1 x M.2 M-Key 2242/2280
USB 2.0	-	-	2	2	2
USB 3.0/2.0	4 (USB 3.1)	4	4	2 (USB 3.1)	2 (USB 3.1)
RS-232	-	-	-	-	-
RS-232/422/485	3 x RS-232/485	1 x RS-232/485	2 x RS-232/485	2	2
Expansion Bus	1 x M.2 E-Key 2230 1 x M.2 B-Key 2242 1 x Nano SIM	1 x mPCIe (full), 1 x SIM	1 x M.2 E-Key 2230	1 x mPCIe	1 x mPCIe
Power Input	DC 12 ~ 24V	DC 19V	DC 12 ~ 24V	DC 9 ~ 36V	DC 9 ~ 36V
Operating Temperature	-15 ~ 60° C	- 10 ~ 45° C	-20 ~ 60° C	- 10 ~ 50° C	- 10 ~ 50° C





Model	ELIT-1050	IEC-3900	IEC-3902	IEC-3904	IEC-3300
Dimensions (W x H x D)	141 x 34.8 x 107.6 mm	130 x 35 x 124 mm	130 x 35 x 124 mm	130 x 35 x 124 mm	163 x 39 x 109 mm
CPU	Intel® Celeron® N3060, 1.6GHz	7th Gen. Intel® Core™ i7/i5 processor	8th Gen. Intel® Core™ i7/i5 processor, Celeron 4305UE 2.0GHz	11th Gen. Intel® Core™ i7/i5/i3 processor, Celeron 6305E 1.8GHz	Intel® N2807 1.58GHz/ J1900 2.0GHz
Chipset	SoC	-	-	-	SoC
Memory	2GB DDR3L SO-DIMM Installed	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	2 x DDR4 SO-DIMM	1 x DDR3L SO-DIMM
Video	2 x HDMI	2 x HDMI	2 x HDMI	2 x HDMI	VGA, HDMI
Resolution	3840 x 2160	3840 x 2160	3840 x 2160	3840 x 2160	1920 x 1080
Audio	Line-out	-	-		Line-out
KB/MS	-	-	-	--	-
Ethernet	2 x GbE	1 x GbE	1 x GbE	1 x GbE	2 x GbE
Mass Storage	32GB eMMC 1 x mSATA, 1 x Micro SD	1 x M.2 M-Key 2280	1 x M.2 M-Key 2280	1 x M.2 M-Key 2280	1 x mSATA
USB 2.0	1	-	-	-	3
USB 3.0/2.0	4	4	4	4	1
RS-232	1	1 (RJ-45)	1 (RJ-45)	1 (RJ-45)	1
RS-232/422/485	-	-	-	-	-
Expansion Bus	2 x mPCIe (1 half & 1 full), 1 x SIM	1 x M.2 M-Key 2280	1 x M.2 M-Key 2280	1 x M.2 M-Key 2280	1 x mPCIe
Power Input	DC 19V	DC 24V	DC 24V	DC 24V	DC 12V
Operating Temperature	-10 ~ 55° C	-20 ~ 70° C	-20 ~ 70° C	-20 ~ 70° C	-20 ~ 55° C

Wide-Screen HMI






Model	ASLAN-W922C-IP (21.5" 16:9)	ASLAN-W922C-6300G4 (21.5" 16:9)	ASLAN-W919C-6300G4 (18.5" 16:9)	ASLAN-W915C-6300G4 (15.6" 16:9)	ASLAN-W912C-6300G4 (11.6" 16:9)	ASLAN-W910C-6300G4 (10.1" 16:10)
Dimensions (W x H x D)	620 x 423 x 62 mm	536 x 332 x 55.5 mm	470 x 295 x 56.2 mm	404 x 255 x 56.3 mm	306 x 206 x 76.5 mm	255 x 175 x 76.5 mm
CPU	6th Gen. Intel® Core™ i5-6300U 2.4GHz	6th Gen. Intel® Core™ i5-6300U 2.4GHz	6th Gen. Intel® Core™ i5-6300U 2.4GHz	6th Gen. Intel® Core™ i5-6300U 2.4GHz	6th Gen. Intel® Core™ i5-6300U 2.4GHz	6th Gen. Intel® Core™ i5-6300U 2.4GHz
Chipsets	-	-	-	-	-	-
Memory	4GB DDR4 installed	4GB DDR4 installed	4GB DDR4 installed	4GB DDR4 installed	4GB DDR4 installed	4GB DDR4 installed
LCD Display	21.5" , 1920 x 1080	21.5" , 1920 x 1080	18.5" , 1366 x 768	15.6" , 1366 x 768	11.6" , 1920 x 1080	10.1" , 1280 x 800
Video Output	-	HDMI / VGA	HDMI / VGA	HDMI / VGA	HDMI / VGA	HDMI / VGA
Audio	-	Optional	Optional	Optional	Optional	Optional
KB/MS	-	-	-	-	-	-
Ethernet	2 x GbE	2 x GbE	2 x GbE	2 x GbE	2 x GbE	2 x GbE
Mass Storage	1 x mSATA, 2 x 2.5'' drive bays	1 x mSATA, 2 x 2.5" drive bays	1 x mSATA, 2 x 2.5" drive bays	1 x mSATA, 2 x 2.5" drive bays	1 x mSATA	1 x mSATA
RS-232	-	-	-	-	-	-
RS-232/422/485	2	4	4	4	2	2
Digital I/O	-	4in/4out(optional)	4in/4out(optional)	4in/4out(optional)	-	-
USB 2.0	2	-	-	-	-	-
USB 3.0/2.0	-	4	4	4	4	4
WIFI	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)
Speaker	-	2 x 2W speakers (optional)	2 x 2W speakers (optional)	2 x 2W speakers (optional)	-	-
Expansion Bus	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full)
Power Input	DC 10 ~ 36V	DC 9 ~ 36V	DC 9 ~ 36V	DC 9 ~ 36V	DC 12 ~ 28V	DC 12 ~ 28V
Operating Temperature	-10 ~ 50° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C

Wide-Screen HMI






Model	ASLAN-W812C-2930G2 (11.6" 16:9)	ASLAN-W810C-2930G2 (11.6" 16:9)	ASLAN-W722C-1900G4 (21.5" 16:9)	ASLAN-W719C-1900G4 (18.5" 16:9)	ASLAN-W715C-1900G4 (15.6" 16:9)	ASLAN-917 Series R/C (17" 5:4)
Dimensions (W x H x D)	306 x 206 x 39.5 mm	255 x 175 x 39.5 mm	536 x 332 x 48.4 mm	470 x 295 x 49.2 mm	404 x 255 x 49.2 mm	420 x 358 x 62.2 mm
CPU	Intel® N2930 Quad-Core™ 1.83GHz	Intel® N2930 Quad-Core™ 1.83GHz	Intel® J1900 Quad-Core™ 2.0GHz	Intel® J1900 Quad-Core™ 2.0GHz	Intel® J1900 Quad-Core™ 2.0GHz	6th Gen. Intel® Core™ i5-6300U 2.4GHz
Chipsets	-	-	-	-	-	-
Memory	2GB DDR3L installed	2GB DDR3L installed	4GB DDR3L installed	4GB DDR3L installed	4GB DDR3L installed	4GB DDR4 installed
LCD Display	11.6" , 1920 x 1080	10.1" , 1280 x 800	21.5" , 1920 x 1080	18.5" , 1366 x 768	15.6" , 1366 x 768	17" , 1280 x 1024
Video Output	DVI-I	DVI-I	DVI-I	DVI-I	DVI-I	HDMI / VGA
Audio	Mic-in/Line-out	Mic-in/Line-out	-	-	-	Optional
KB/MS	-	-	-	-	-	-
Ethernet	2 x GbE	2 x GbE	3 x GbE	3 x GbE	3 x GbE	2 x GbE
Mass Storage	1 x mSATA	1 x mSATA	2 x 2.5" drive bays	2 x 2.5" drive bays	2 x 2.5" drive bays	1 x mSATA, 2 x 2.5" drive bays
RS-232	-	-	2	2	2	-
RS-232/422/485	-	-	2	2	2	4
Digital I/O	-	-	-	-	-	-
USB 2.0	1	1	3	3	3	-
USB 3.0/2.0	1	1	1	1	1	4
WIFI	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)
Speaker	-	-	2 x 2W speakers (optional)	2 x 2W speakers (optional)	2 x 2W speakers (optional)	-
Expansion Bus	2 x mPCIe (1 half & 1 full)	2 x mPCIe (1 half & 1 full)	1 x mPCIe (full)	1 x mPCIe (full)	1 x mPCIe (full)	2 x mPCIe (1 half & 1 full)
Power Input	DC 12V	DC 12V	DC 9 ~ 36V	DC 9 ~ 36V	DC 9 ~ 36V	DC 9 ~ 36V
Operating Temperature	-10 ~ 55° C	-10 ~ 60° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C

Ultra-Slim HMI

Model	LYNC-817	LYNC-715-4200G4	LYNC-715-1900G4	LYNC-712-4200G4	LYNC-712-1900G4	LYNC-708-3845G2
Dimensions (W x H x D)	428.0 x 380.0 x 77.0 mm	389.93 x 309.93 x 56.96 mm	389.93 x 309.93 x 46.80 mm	325.86 x 258.86 x 53.50 mm	325.86 x 258.86x 44.00 mm	274.96 x 207.96 x 56.1 mm
CPU	Intel® J1900 Quad-Core™ 2.0GHz	Intel® N4200 Quad-Core™ 1.10GHz	Intel® J1900 Quad-Core™ 2.0GHz	Intel® N4200 Quad-Core™ 1.10GHz	Intel® J1900 Quad-Core™ 2.0GHz	Intel® E3845 Quad-Core™ 1.91GHz
Memory	4GB DDR3L installed	4GB DDR3L onboard	4GB DDR3 installed	4GB DDR3L onboard	4GB DDR3 installed	2GB DDR3L onboard
LCD Display	17" , 1280 x 1024	15" , 1024 x 768	15" , 1024 x 768	12.1" , 1024 x 768	12.1" , 1024 x 768	8" , 1024 x 768
Video Output	DVI-I	DVI	DVI-I	DVI	DVI-I	-
Audio	Line-out	2 x 1.5W speaker (optional)	2 x 1.5W speakers (optional)	2 x 1.5W speakers (optional)	2 x 1.5W speakers (optional)	1 x Line-out 2 x 1.5W speakers
KB/MS	-	-	-	-	-	-
Ethernet	2 x GbE	2 x GbE	2 x GbE	2 GbE	2 x GbE	1 x GbE (PoE)
Mass Storage	1 x CFast, 1 x 2.5" drive bay	1 x CFast, 1 x 2.5" drive bay	1 x CFast, 1 x 2.5" drive bay	1 x CFast, 1 x 2.5" drive bay	1 x CFast, 1 x 2.5" drive bay	1 x mSATA
RS-232	2	-	-	-	-	2
RS-232/485	2	4	4	4	4	-
Digital I/O	-	-	-	-	-	-
USB 2.0	3	5	5	5	5	2
USB 3.0/2.0	1	-	-	-	-	-
Wi-Fi	mPCIe (optional)	mPCIe (optional)	mPCIe (optional)	mPCIe (optional)	mPCIe (optional)	-
Expansion Bus	1 x mPCIe (full) 1 x PCI 32-bit Slot (default) or 1 x PCIe x1 Slot (optional)	1 x mPCIe (full)	1 x mPCIe (full)	1 x mPCIe (full)	1 x mPCIe (full)	-
Power Input	DC 9~36V	DC 9~36V	DC 9~36V	DC 9~36V	DC 9~36V	DC 12V
Operating Temperature	0 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 55° C	0 ~ 60° C

Ultra-Slim HMI

Model	iTC-1101C	iTC-1121R	iTC-1150R
Dimensions (W x H x D)	255 x 175 x 62.8 mm	315 x 260 x 68.8 mm	315 x 260 x 68.8 mm
CPU	Intel® Celeron® J6413 Quad-Core™ Processor 1.80GHz	Intel® Celeron® J6413 Quad-Core™ Processor 1.80GHz	Intel® Celeron® J6413 Quad-Core™ Processor 1.80GHz
Memory	4GB DDR4 Pre-installed	4GB DDR4 Pre-installed	4GB DDR4 Pre-installed
LCD Display	10.1" , 1280 x 800	12.1" , 1024 x 768	15" , 1024 x 768
Video Output	1 x DVI-I 1 x DisplayPort	1 x DVI-I 1 x DisplayPort	1 x DVI-I 1 x DisplayPort
Audio	1x Mic-in / 1x Line out 2 x 1.5W speakers (optional)	1x Mic-in / 1x Line out 2 x 1.5W speakers (optional)	1x Mic-in / 1x Line out 2 x 1.5W speakers (optional)
Ethernet	1 x GbE 1 x 2.5GbE	1 x GbE 1 x 2.5GbE	1 x GbE 1 x 2.5GbE
Mass Storage	1 x M.2 M-key 2242/2280	1 x M.2 M-key 2242/2280 1 x 2.5" drive bay	1 x M.2 M-key 2242/2280 1 x 2.5" drive bay
RS-232	2	2	2
RS-232/ 422/485	2	2	2
Digital I/O	8 bit Digital I/O	8 bit Digital I/O	8 bit Digital I/O
USB 3.0/2.0	4	4	4
Wi-Fi	mPCIe (optional)	mPCIe (optional)	mPCIe (optional)
Expansion Bus	1 x mPCIe (full)	1 x mPCIe (full)	1 x mPCIe (full)
Power Input	DC 9~36V	DC 9~36V	DC 9~36V
Operating Temperature	-10 ~ 55° C	-10 ~ 55° C	-10 ~ 55° C

RISC Computing

Model	IEC-3390	IOT-800N
Processor	ARMv8, Dual Cortex-A72 + Quad Cortex-A53, 64-bit	RockChip PX30 Quad-Core ARM Cortex-A35, 1.5GHz
Memory	4GB LPDDR4	2GB DDR4
Storage	64GB eMMC Flash	16GB eMMC Flash
Camera	-	1 x 8MP AF (MIPI CSI Type)
Audio	1 x 2V RMS Line out, 3.5mm phone Jack	1 x 1W built-in mono speaker 1 x MIC
GPS	-	Yes
WWAN	-	WCDMA/LTE(optional)
SIM Card	-	Nano SIM card
Wi-Fi / BT	802.11 a/b/g/n/ ac + BT5.0/BLE	802.11 a/b/g/n/ ac + BT4.2/BLE
NFC	-	Yes
microSD Card	1 x Micro SDHC/ microSDXC/micro SD (Max. 256GB) card Socket	1 x micro SDHC/SDXC/SD (Max. 128GB)
USB Port	1 x USB TYPE C, 4 x USB 2.0 Type A	2 x USB 2.0 Type-A 1 x micro USB 2.0
Serial Port	2 x RS232, DB-9 Interface	1 x RS-232/422/485 1 x RS-232
LAN	2 x GbE	1 x 10/100Mbps
CAN	-	OBD-II
DIO	-	3 x DI, 3 x DO (Dry contact)
Video	2 x HDMI 2.0a output, max support 1 x 4K + 1 x 2K	
Size/Type/ Resolution	-	8" TFT LCD, 1024 x 600
Brightness	-	500 cd/m2
Touchscreen	-	Projected Capacitive Multi-touch
Power Input	12V/2A	12V/1.5A, 9~36V Ignition detection
Operating Temp.	0° C ~ 50° C	-5° C ~ 60° C
Dimensions (W x H x D)	163 x 109 x 35 mm	218.16 x 162.67 x 46.5 mm
Regulatory	CE, FCC	CE, FCC
OS Support	Android 9.0	Android 8.1

Heavy-Duty HMI





Model	PARDUS-6194	PARDUS-6174	TOKIN-6153	TOKIN-6123	TOKIN-6083
Dimensions (W x H x D)	469.7 x 396.5 x 93.7 mm	438.5 x 366.5 x 93.7 mm	389.9 x 309.9 x 84.30 mm	325.9 x 258.9 x 77 mm	274.9 x 207.9 x 77 mm
CPU	2nd Gen. Intel® Core™ i3-2340UE 1.3GHz	2nd Gen. Intel® Core™ i3-2340UE 1.3GHz	Intel® 827E Single-core 1.4GHz	Intel® 827E Single-core 1.4GHz	Intel® 827E Single-core 1.4GHz
	Intel® 847E Dual-core 1.1 GHz	Intel® 847E Dual-core 1.1 GHz			
Chipsets	Intel® QM67/HM65	Intel® QM67/HM65	Intel® HM65	Intel® HM65	Intel® HM65
Memory	2GB DDR3 installed	2GB DDR3 installed	2GB DDR3 installed	2GB DDR3 installed	2GB DDR3 installed
LCD Display	19", 1280 x 1024	17", 1280 x 1024	15", 1024 x 768	12.1", 1024 x 768	8", 1024 x 768
Video Output	DVI-I	DVI-I	DVI-I	DVI-I	DVI-I
Audio	Mic-in/Line-out	Mic-in/Line-out	-	-	-
KB/MS	PS2	PS2	-	-	-
Ethernet	2 x GbE	2 x GbE	2 x GbE	2 x GbE	2 x GbE
Mass Storage	2 x CFast & 1 x 2.5" drive bay (default) or 1 x CFast, 2 x 2.5" drive bays	2 x CFast & 1 x 2.5" drive bay (default) or 1 x CFast & 2 x 2.5" drive bays	1 x primary CFast & 1 x 2.5" drive bay or secondary CFastat (outside-accessible)	1 x primary CFast & 1 x 2.5" drive bay or secondary CFast (outside-accessible)	1 x primary CFast & 1 x 2.5" drive bay or secondary CFast (outside-accessible)
RS-232	2	2	2	2	2
RS-232/485	2	2	2	2	2
Digital I/O	-	-	-	-	-
USB 2.0	5	5	4	4	4
USB 3.0/2.0	-	-	-	-	-
WIFI	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)	mPCIe(optional)
Speaker	-	-	-	-	-
Expansion Bus	2 x mPCIe (1 half & 1 full) & 1 x PCI 32-bit (default) or PCIe x1	2 x mPCIe (1 half & 1 full) & 1 x PCI 32-bit (default) or PCIe x1	2 x mPCIe (1 half & 1 full) & 1 x PCI 32-bit (default) or PCIe x1	2 x mPCIe (1 half & 1 full) & 1 x PCI 32-bit (default) or PCIe x1	2 x mPCIe (1 half & 1 full) & 1 x PCI 32-bit (default) or PCIe x1
Power Input	DC9 ~ 36V	DC9 ~ 36V	DC9 ~ 36V	DC9 ~ 36V	DC9 ~ 36V
Operating Temperature	-20 ~ 55° C	-20 ~ 55° C	-20 ~ 60° C	-20 ~ 60° C	-20 ~ 60° C

Industrial Automation

Intelligent Power Backup Solution






Model	SCP-41	SCP-43	SiP-41B	SiP-42B	SiPB-1690A	SiPB-1690B
Dimensions (W x H x D)	100 x 187.4 x 150 mm	100 x 187.4 x 150 mm	40 x 176 x 112 mm	59 x 176 x 112 mm	160 x 88 x 44.7 mm	169 x 108 x 22.2 mm
Type	Supercapacitor 4S1P	Supercapacitor 4S3P	Supercapacitor 4S1P	Supercapacitor 4S2P	Supercapacitor 4S1P	Supercapacitor 4S2P
Capacity	400 Farads / Each	400 Farads / Each	100 Farads / Each	100 Farads / Each	100 Farads / Each	100 Farads / Each
Power Input	DC 12~28V	DC 12~28V	DC 12V / 24V	DC 12V / 24V	DC 12V / 24V	DC 12V / 24V
Power Output	DC 12V / 24V	DC 12V / 24V	DC 12V / 24V	DC 12V / 24V	DC 12V / 24V	DC 12V / 24V
Operating Temperature	-20 ~ 70° C	-20 ~ 70° C	-20 ~ 70° C	-20 ~ 70° C	-20 ~ 70° C	-20 ~ 70° C

Wide Temperature Range

Frame Grabber Commmunication Cards




Model	PoE-i314	POE-i214	POE-i211	SFP-7102
Dimensions (W x H)	147.8 x 124.3 mm	168 x 111 mm	168 x 111 mm	145.85 x 105.65 mm
LAN Chipset	4 x Intel i210AT	4 x Intel i210IT	1 x Intel i210IT	1 x Intel X710-BM2
Interface	PCIe x4	PCIe x1	PCIe x1	PCIe x4
Port	4 x RJ-45 GbE	4 x RJ-45 GbE	1 x RJ-45 GbE	2 x 10G BASE SFP+ Fiber Connector
Power Input	2.8A@24VDC, from 4-pin AT/ATX power connector	2.4A@3.3 VDC from PCIe bus 5.6A @ 12VDC from 4-pin AT/ATX power connector	1.6A@3.3VDC from PCIe bus 2.8A@12VDC from PCIe bus	3A@3.3VDC/2.1A@12VDC from PCIe bus
Power Output	15.4W@48VDC power output(per port)	15.4W@48VDC power output(per port)	15.4W@48VDC power output (per port)	Max. 15W for 2 x copper Max. 1W for 2 x fiber
Operating Temperature	-20 ~ 70° C	-40 ~ 85° C	-40 ~ 85° C	-25 ~ 55 ° C

Wide Temperature Range

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