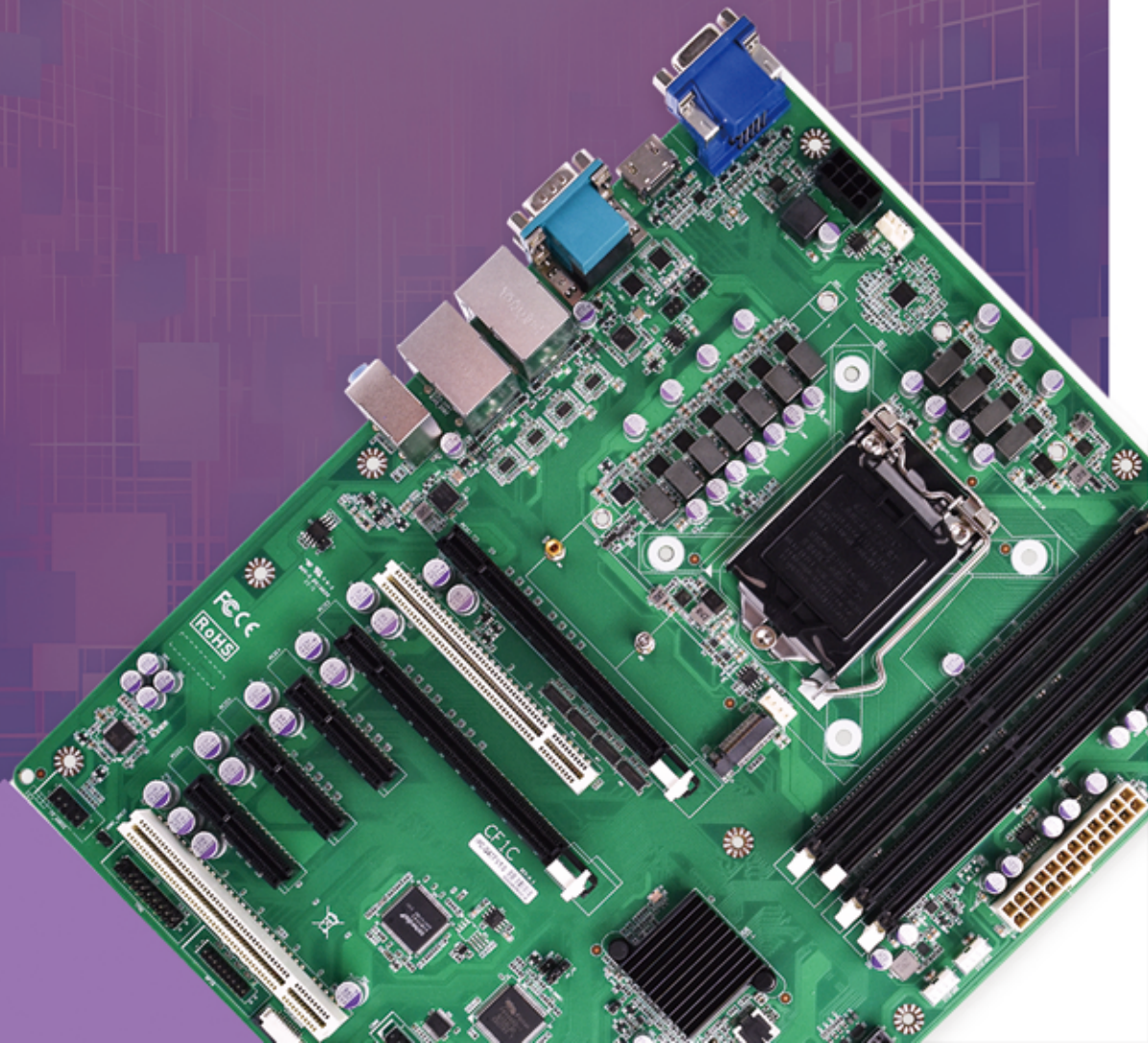Fodenn Electronic Technology Co.,Ltd

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Shanghai (Capital Dragon Dream Business Building),Shanghai,China

Professional IPC
R&D
and Production
One-stop Solution

Fodenn Electronic Technology Co.,Ltd

Fodenn | (intel) | IoT Solutions Alliance

CONTENTS

Company Profile

Fodenn Electronic Technology Co., Ltd is a high-tech enterprise that integrates R&D, design, production, sales, and after-sales service. It is a global leading provider of high-performance computing technology across multiple embedded industries.

Established in 2009, Fodenn opened its R&D center in Shenzhen in 2014 and established the North China branch in 2018. Presently, Fodenn supplies motherboards to 85% of self-service equipment manufacturers in China.

With superior service and premium quality, Fodenn's product coverage has expanded from mainland China to Southeast Asia, Europe, the Middle East, North America, and South America.

Spanning an area of 20,000 square meters, Fodenn's manufacturing R&D center is equipped with a complete set of automatic assembly lines, including 8 automatic DIP lines, 12 automatic SMT lines, 6 automatic packaging lines, 6 test lines, and 2 automatic aging lines.

Leveraging professional technology, R&D advantages, and years of manufacturing experience, Fodenn offers customers various types of industrial motherboards, industrial computers, industrial panel PCs, multi-function all-in-one kiosks, and more.

Fodenn's products find widespread applications in intelligent manufacturing, financial terminals, medical information, digital signage, government information, cloud storage, and various other scenarios.

As a member of the Intel IoT Solutions Alliance, Fodenn has provided customers with over 1000 solutions and completed product customization in as fast as 35 days to meet diverse customer needs. Fodenn remains committed to focusing on Intel product solutions and delivering more innovative application scenarios.

Development History

2024 — Awarded the Intel Market Breakthrough Award 2023

Establishment of North American office — 2023

2022 — Establishment of Industrial Panel PC Business Unit

Awarded the Intel IoT Product Innovation Award 2021 — 2021

2019 — Awarded the Intel Technology Innovation Award 2019

Jointly defined Smart Kiosk Module with INTEL, redefining IPC for KIOSK industry — 2019

2018 — Develop and produce ETC products

Participated in the development and production of China Social Security machine — 2017

2015 — Participated in the development and production of CCB STM's industrial computer (Industrial computer started to develop and produce batch shipments)

Participated in the development and production of the Super Counter of the ABC (Started the development and production of multi-functional machines for mass shipment) — 2014.12

2012.5 — Shenzhen company established (Became the motherboard supplier for 70% of Chinese self-service KIOSK manufacturers)

Became an AMD/Intel partner (Realized the R&D, production and mass shipment of industrial motherboards) — 2010

2009 — The Shanghai company was established

Customization Service

Fodenn is defined as an industrial IoT product company that provides OEM services to customers for product customization, including but not limited to changes in appearance, structure, brand identity, extended functionality, and performance enhancement.

◉ All in one customization
(industrial computer, industrial panel pc, multifunctional kiosk)

Machine customization services include:
1. Customization of machine structure
2. System assembly
3. Customized CMOS/BIOS settings
4. Operating system installation
5. Complete system testing
6. Customized environment and EMC testing
7. Certification tools
8. Customized packaging

◉ Motherboard customization

In addition to providing standard embedded motherboards such as 3.5 inches, EPIC, Mini-ITX, ATX, and other IPC embedded products, Fodenn also provides customized non-standard motherboard services.
The customization services for motherboard include:
1. Customized function combination, board type, and interface
2. Customized CMOS/BIOS settings
3. Customized accessories and peripheral devices pre-installed
4. Customized environmental and EMC testing, etc.

◉ Development and process

With professional technical capabilities, R&D advantages, and years of experience, Fodenn provides customers with various custom solutions for industrial motherboards and industrial all in one computer products.
45 days
Customization of motherboard products is completed in 45 working days.
60 days
Customization of whole machine products is completed in 60 working days.

◉ Feasibility study

HW, BIOS, PE, VE, and procurement evaluate all related issues of the project, provide evaluation reports, PM evaluates in a meeting, and determines project progress.
Design and development
HW design, key component review, cost review, PCB layout design, review, EVT BIOS ready, VE EVT plan.
Sampling and debugging
EVT PCBA, HW/BIOS debugging, power and clock checks, pre-testing; VE EVT, BFT, RT, ST, CT, VE reports.
Trial production
HW redesign, DVT PCB, DVT PCBA, DVT testing, PE/VE reports.
Small batch production
200-500 pieces, factory testing reports, VE testing reports, finally start mass production.

Industrial motherboard

Fodenn Electronics, a manufacturer of industrial motherboards, is associate member of the Intel Internet of Things Solutions Alliance. The company is dedicated to creating industrial products for the Internet of Things, and its self-developed industrial motherboards cover a full range of specifications, including PICO-ITX, MINI-ITX, 3.5&4 inches, Micro-ATX, ATX and more. Fodenn products are widely used in a variety of fields, such as self-service terminals, cloud terminals, thin clients, OPS terminals, industrial control, edge computing, network gateways, machine vision, AI computers, and more.
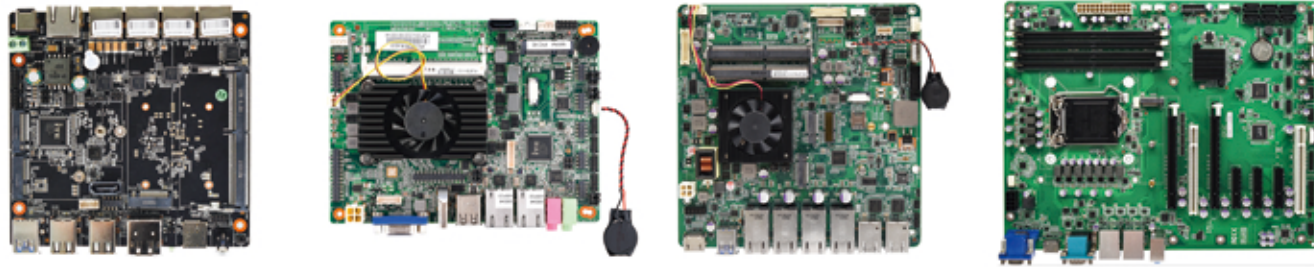
Operating System: Win7/WES7/Win10/Linux/Vxworks/Qnx etc.
Processor: Intel Celeron J1900/ J6412/ Core 4–12th i3/i5/i7 all series CPU
Size: PICO–ITX, 3.5&4 inch, MINI–ITX, Micro–ATX, ATX and other non–standard dimension.
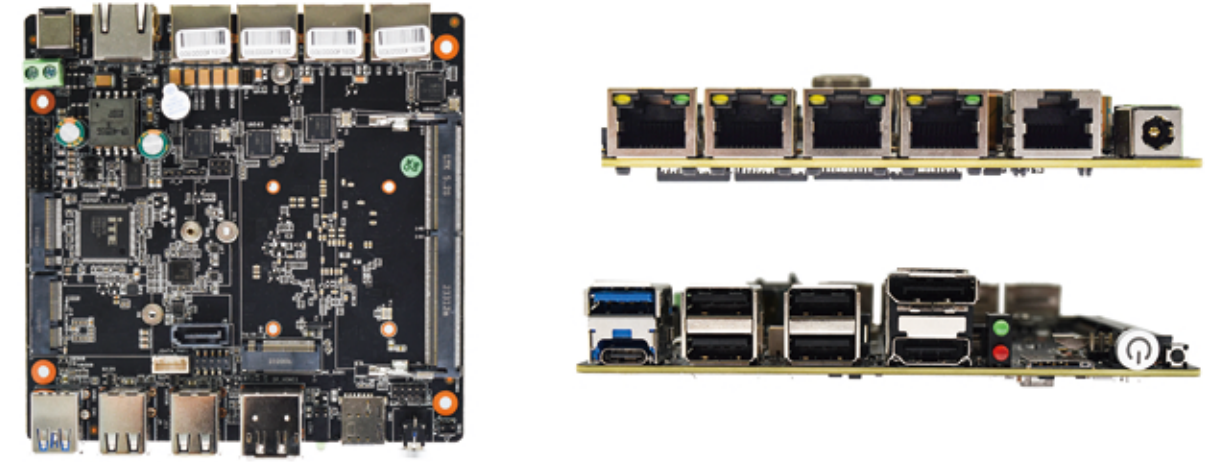
IPC-ADN4L

Product Features

1.Ultra-long supply cycle: The use of industrial-grade materials ensures an ultra-long supply cycle of 5-15 years, maintaining stability in product lifespan.

2.Rich peripheral interfaces: Our industrial motherboards support a multitude of peripheral interfaces, ranging from 8 PCIe 16X and other expansion interfaces to 18 USB, 14 COM, 6 RJ45, 3 M.2, 3 MINIPCIE, 4 POE, 48 SATA, CAN-OPEN, and other multi-functional interfaces for comprehensive coverage. Products can be customized, and customers can easily find the corresponding Fodenn standard product based on their requirements.

3.Extensive application cases: Fodenn not only serves the top five integrators in the self-service terminal industry but also has industry benchmark customer applications in industrial automation, laser fields, smart logistics, edge computing, and super-large storage server fields. Fodenn's products have also been widely used in overseas countries such as Europe and the United States.

4.Seamless upgrade replacement: To provide customers with convenient applications, Fodenn has maintained a uniform layout for its industrial motherboards since 2012, extending from Intel H81 to H610 and will continue to do so. Customers can achieve seamless upgrades and product improvements without changing the original structural scheme.

5.Customer deep customization: Fodenn has been providing reliable and comprehensive OEM/ODM customization services since its establishment, helping many leading application manufacturers in the industry with product customization and achieving exceptional product performance and unparalleled quality over the past decade.

6.Wide Voltage Design: The industrial motherboard unit supports DC 9~36V wide voltage input and is equipped with overcurrent, overvoltage, and anti-failure protection functions, as well as Phoenix-type terminal fastening.

7.Wide Temperature Design: Adhering to the philosophy of strict material selection, Fodenn selects industrial-grade wide temperature materials to ensure the normal operation of the machine within the temperature range of -20°C to 60°C.

IPC-ADN4L Industrial Motherboard		
System	CPU	Intel 12th Gen Alder lake-N, N95, N100,N200,N305,default N100
	RAM	1 x SO-DIMM DDR4 -2666/3200 ,max support 32GB
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	Win 10/11, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
Rear I/O	LAN	4 x LAN port, RJ45, Intel I225/ I226 chipset, (One of POE supported for powering)
	Display	DP + HDMI
	USB	1. 1 x USB3.2, 1 x USBC, 6 x USB2.0 (2 x USB2.0 pins)
Internal I/O	Expansion port	M.2 B key support 5G, M.2 E key support WiFi
	COM	The LAN can be reserved for COM ports (Reserve Power Socket)
	USB	1. 1 x USB3.0, 1 x USBC, 4 x USB2.0 (2 x USB2.0 pins)
	Storage	1 x m.2 2280 SATA SSD, 1 x 2.5 " SATA III HDD /SSD
	GPIO	8bits digital I/O
	SIM card	Onboard SIM card slot
Power	Power Input	DC in
	Input Voltage	+12V
Structure	Dimension	120* 120mm
Environment	Operating Environment	0°C ~60°C , 0~95%RH, non-condensing
	Storage Environment	-40°C ~85°C , 0~95%RH, non-condensing
Certificate	Safety Certification	CE
Parts List		DB9 COM cable , USB cable

IPC-BT35
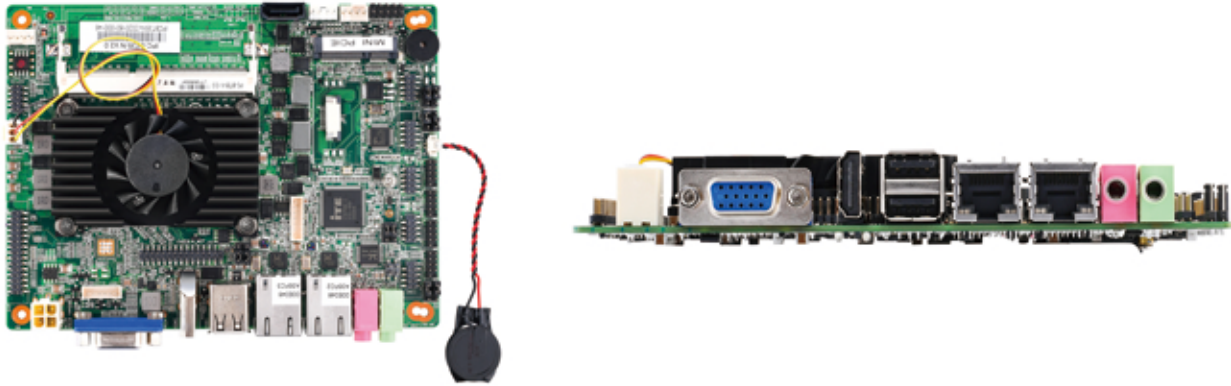
IPC-BT35 Industrial Motherboard		
System	CPU	Intel Celeron J1900/J1800 Quad Core TDP 10W
	RAM	DDR3L-1333, 1*SO-DIMM up to 8GB
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN7/8/10, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
Rear I/O	LAN	2*RJ45 Gigbite LAN
	Display	VGA+HDMI+LVDs/eDP synchronous/asynchronous display
	Audio	5.1 Channel, 1*LINE-OUT, 1*MIC-IN build-in amplifier
	USB	2*USB2.0
	PS/2	Pin header
Internal I/O	Expansion port	1*Full length MINI-PCIE for 3G/4G/WiFi
	COM	6*COM(COM2 support RS422/485),COM1/COM2 support 5V/12V output
	USB	6*USB2.0
	Storage	1*SATA2.0, 1*MSATA
	GPIO	8bits digital I/O
Power	Power Input	DC in
	Input Voltage	+12V
Structure	Dimension	3.5&4 inch, 154.8X117.4MM
Environment	Operating Environment	0℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE

Model Name	Specification
IPC-BT35-N	VGA+HDMI/eDP, 8*USB2.0,6*COM
IPC-BT35-L	VGA+HDMI/LVDs, 8*USB2.0,6*COM
Parts List	DB9 COM cable, USB cable

IPC-TGL35
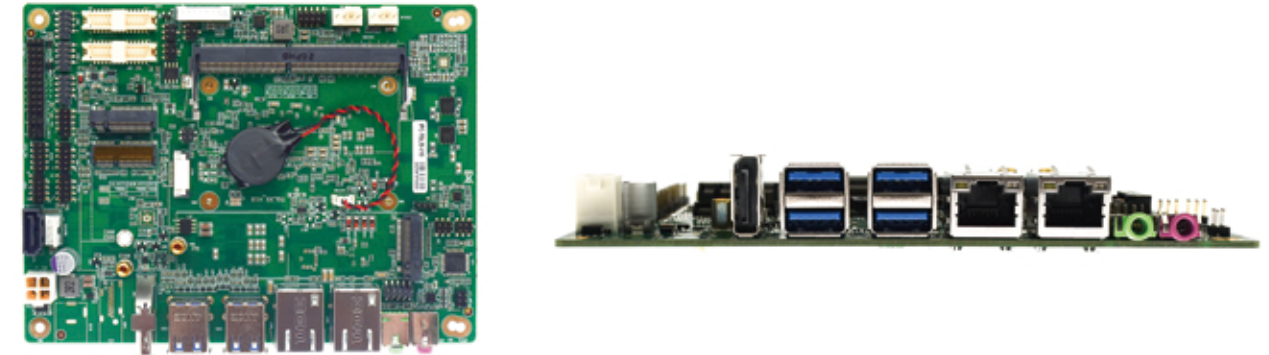
IPC-TGL35 Industrial Motherboard		
System	CPU	Intel Core 11th gen Tiger Lake-U Series
	RAM	DDR4 2133--3200MHz ,1*SO-DIMM up to 32G
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN10/11, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
Rear I/O	LAN	1*Intel I226V 2.5Gbe LAN,1*I219LM 1000Gbps LAN
	Display	HDMI/DP/LVDs/eDP synchronous/asynchronous display
	USB	4*USB3.2(Gen1)
Internal I/O	Expansion port	1* M.2 (B key 3042/3052 for 4G/5G) 1* M.2 (E key 2230 CNVi,PCI-E,USB2.0)
	Audio	1*LINE-OUT, 1*MIC IN, build-in amplifier
	COM	6*COM(COM1/2 support RS422/485)
	USB	6*USB2.0 (2*USB for B Key and E key optional)
	Storage	1*SATA3.0,1*M.2 M key NVME 2280
	GPIO	8bits digital I/O
	SIM card	Onboard SIM card slot
	CAN	1*CAN
	I2C	Support SMbus/ I2C
Power	Power Input	wide voltage
	Input Voltage	12-24V DC in
Structure	Dimension	3.5inch 146X102MM
Environment	Operating Environment	-20℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE

Parts List	DB9 COM cable, USB cable

3.5&4inch Motherboard

IPC-EK35
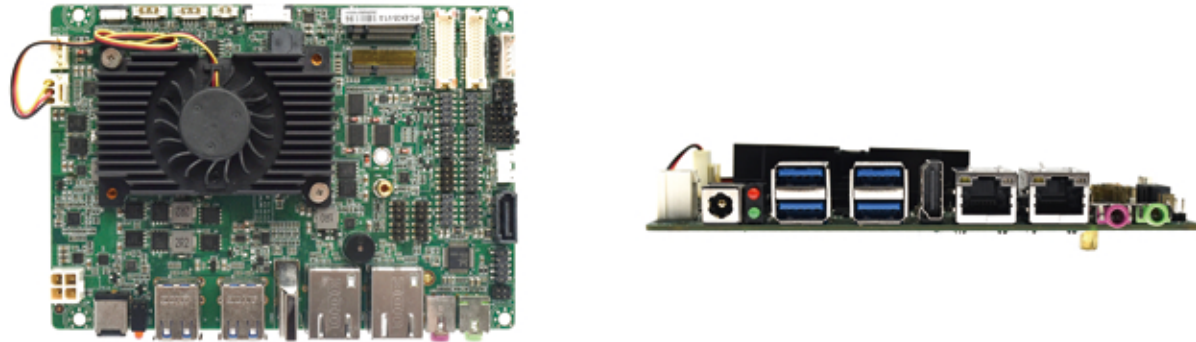
IPC-EK35 Industrial Motherboard		
System	CPU	Intel Elkhart Lake Celeron J6412 TDP 10W
	RAM	DDR4 -2666/2933/3200Mhz ,1*SO-DIMM up to 32GB
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	Win 10/11, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
Rear I/O	LAN	2*RJ45 Gigbite LAN
	Display	HDMI +LVDS+eDP/LVDS synchronous/asynchronous TRIPLE display
	Audio	1*LINE-OUT, build-in 10W ampifier
	USB	4*USB3.2(Gen1)
Internal I/O	Expansion port	M.2 B key support 5G, M.2 E key support PCI-E WiFi
	COM	6*COM(COM1/2 support RS422/485)
	USB	6*USB2.0 (4*USB2.0 if use E-Key and B Key port)
	Storage	1*SATA 7 PIN, 1*M.2 M key NVME and mSATA 2280
	CAN	2*CAN(only X series CPU support)
	GPIO	8bits digital I/O
	SIM card	Onboard SIM card slot
Power	Power Input	DC in
	Input Voltage	+12V
Structure	Dimension	3.5inch (146mm*102mm)
Environment	Operating Environment	-20℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE
Parts List		DB9 COM cable, USB cable

Mini ITX Motherboard

IPC-H5110C
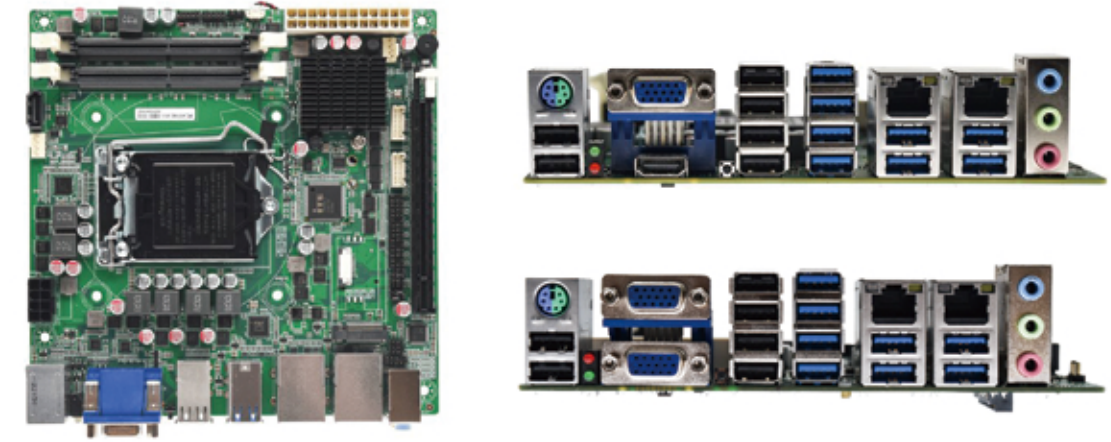
IPC-H5110C Industrial Motherboard		
System	CPU	Intel Core 10-11th gen/ Celeron/Pentium LGA1200
	Chipset	H510/B560
	RAM	DDR4-2133-3200Mhz ,1*U-DIMM up to 32G
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN10/11,LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM
Rear I/O	LAN	2*RJ45 Gigbite LAN
	Display	VGA+VGA/HDMI synchronous/asynchronous display
	Audio	5.1 Channel,1*LINE-OUT,1*MIC-IN,1*LINE-IN, build-in amipifier
	USB	8*USB3.0, 6*USB2.0
	PS/2	1*PS/2, 2 in1
	Button/light	1*SYS, 1*HDD status indicator
Internal I/O	Expansion port	1*PCIE X16,1*M.2 B Key,1*M.2 E Key
	COM	10*RS232 Header (COM1 and COM2 support RS422/485) COM1/COM2 support 5V/12V output
	Storage	2*SATA3.0 1*M.2
	GPIO	8bits digital I/O
	SIM card	Onboard SIM card slot
Power	Power Input	24+4Pin ATX Power supply
	Input Voltage	+12V +5V +3.3V -12V
Structure	Dimension	Mini ITX, 170X170MM
Environment	Operating Environment	0℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE
Parts List		I/O bezel, DB9 COM cable, USB cable

IPC-H61010C

IPC-TGL6L

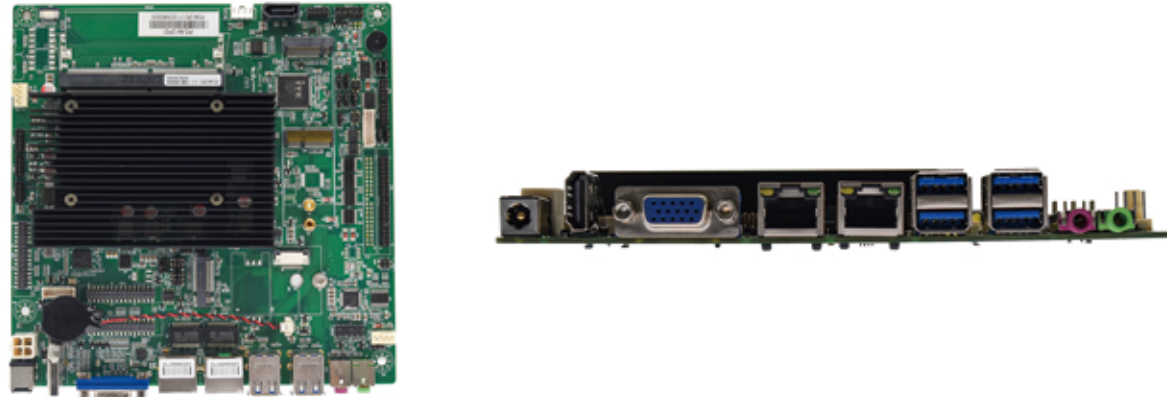| IPC-H61010C Industrial Motherboard		
System	CPU	Intel Core 12th gen/Celeron/Pentium LGA1700
	Chipset	INTEL H610
	RAM	DDR4-2133-3200Mhz, 2*SO-DIMM up to 32G
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN10/11, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM
Rear I/O	LAN	2*RJ45 Gigbite LAN
	Display	VGA+VGA/HDMI synchronous/asynchronous display
	Audio	5.1Channel, 1*LINE-OUT, 1*MIC IN, 1*LINE-IN, build-in ampifier
	USB	8*USB3.0 6*USB2.0
	PS/2	1*PS/2, 2 in 1
	Button/light	1*SYS,1*HDD status indicator
Internal I/O	Expansion port	1*PCIEX16 1*M.2 B Key 1*M.2 E Key
	COM	10*RS232 Header (COM2 support RS422/485) COM1/COM2 support 5/12V output
	Storage	2*SATA3.0 1*M.2
	GPIO	8bits digital I/O
	SIM card	Onboard SIM card slot
Power	Power Input	24+4Pin ATX Power supply
	Input Voltage	+12V +5V +3.3V -12V
Structure	Dimension	MINI ITX, 170X170MM
Environment	Operating Environment	0℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE
Parts List		I/O bezel, DB9 COM cable, USB cable

IPC-TGL6L Industrial Motherboard		
System	CPU	Intel Core 11th gen Tiger Lake U-series/Pentium/Celeron
	RAM	DDR4 2133--3200MHz ,2*SO-DIMM up to 64G
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN10/11, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM
Rear I/O	LAN	4*Intel I226LM (PoE PS) + 2*Intel I226LM Gigbite LAN
	Display	HDMI/LVDs/eDP synchronous/asynchronous display
	USB	2*USB3.0
Internal I/O	Expansion port	1* M.2 (B key 3042/3052 for 4G/5G) 1* M.2 (E key 2230 PCI-E,USB2.0)
	Audio	Front_FP (support ALC888S/ALC897/ALC662) + build-in SPK
	COM	4*COM(COM1/2 support RS422/485)
	USB	1*USB3.0, 4*USB2.0
	Storage	1*SATA3.0, 1*M.2 M key NVME 22110
	GPIO	8bits digital I/O
	SIM card	Onboard SIM card slot
	CAN	1*CAN
	I2C	Support SMbus/ I2C
Power	Power Input	DC in
	Input Voltage	9~36V wide voltage
Structure	Dimension	Mini ITX , 170X170MM
Environment	Operating Environment	0℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE
Parts List		I/O bezel , DB9 COM cable , USB cable

IPC-6412P01

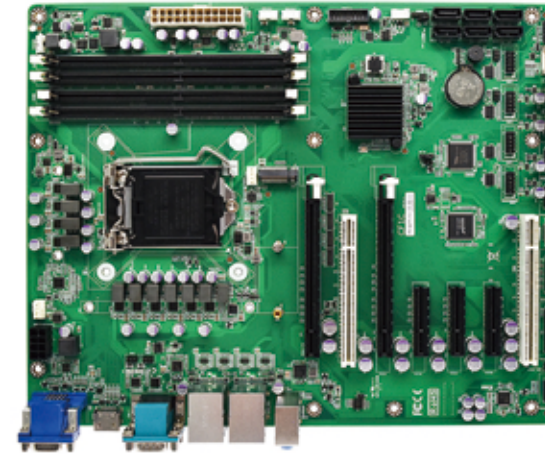| IPC-6412P01 Industrial Motherboard		
System	CPU	Intel Elkhart Lake Celeron J6412 TDP 10W
	RAM	DDR4 -2666/2933/3200Mhz,1*SO-DIMM up to 32G
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN10/11, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
Rear I/O	LAN	2*RJ45 Gigbite LAN
	Display	HDMI+VGA+LVDS(default) Notes:HDMI/EDP2 +LVDS1/EDP1 (BOM Optional) synchronous/asynchronous TRIPLE display
	Audio	1*LINE-OUT, build-in 10W ampifier
	USB	4*USB3.0
Internal I/O	Expansion port	M.2 B key support 5G, M.2 E key support PCI-E WiFi
	COM	6*COM(COM1/2 support RS422/485)
	USB	6*USB2.0 (4*USB2.0 if use B Key and E Key port)
	Storage	1*SATA 7 PIN, 1*M.2 M key NVME 2280
	CAN	2*CAN(only X series CPU support)
	GPIO	8bits digital I/O
	SIM card	Onboard SIM card slot
Power	Power Input	DC in
	Input Voltage	+12V
Structure	Dimension	Mini ITX, 170X170MM
Environment	Operating Environment	0℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE
Parts List		DB9 COM cable , USB cable

IPC-1151P03

IPC-I1151P03 Industrial Motherboard		
System	CPU	Intel Core 6-7th gen i3/i5/i7/Celeron/Pentium LGA1151
	Chipset	H110/B150/H170 TDP 6W
	RAM	DDR4-1866/2133, 1*U-DIMM up to 16G
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN7/8/10,LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM1.1/2.0
Rear I/O	LAN	2*RJ45 Gigbite LAN
	Display	VGA+VGA/HDMI synchronous/asynchronous display
	Button/light	1*SYS,1*HDD status indicator
	Audio	5.1 Channel, 1*LINE-OUT, 1*MIC-IN, 1*LINE-IN, build-in amplifier
	USB	8*USB3.0, 6*USB2.0
	PS/2	1*PS/2, 2 in1
Internal I/O	Expansion port	1*PCIE X1 slot, 1*Full length MINI-PCIE for 3G/4G/WiFi
	COM	10*RS232(COM2 support RS422/485),COM1/COM2 support 5V/12V output
	Storage	2*SATA3.0, 1*MSATA, 1*Mini PCIE
	GPIO	8bits digital I/O
	SIM card	Onboard SIM card slot
	LPT	1*LPT pin header
Power	Power Input	24+4Pin ATX Power supply
	Input Voltage	+12V +5V +3.3V -12V
Structure	Dimension	Mini ITX, 170X170MM
Environment	Operating Environment	0℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE

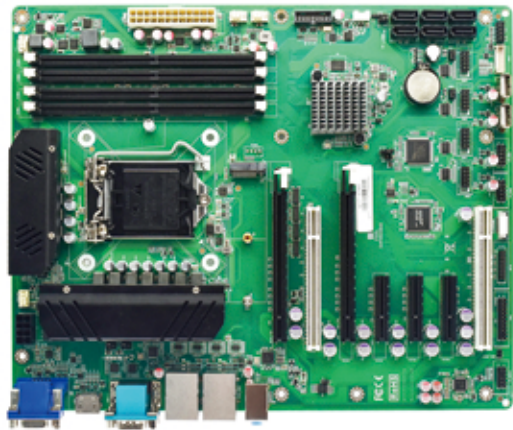| Model Name	Specification
IPC-I1151P03-01	VGA+VGA, up to16GB, 8*USB3.0,6*USB2.0,10*COM
IPC-I1151P03-02	VGA+HDMI, up to16GB, 8*USB3.0,6*USB2.0,10*COM
IPC-I1151P03-02	VGA+HDMI, up to 32GB, 2*USB3.0,8*USB2.0,10*COM
Parts List	I/O bezel, DB9 COM cable, USB cable

IPC-Q37MF

IPC-Q477

IPC-Q37MF Industrial Motherboard		
System	CPU	Intel®LGA1151 Socket Supports 8/9th Gen CoreTM
	Chipset	Q370
	RAM	DDR4 2666/2400/2133 MHz DRAM, up to 128GB
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN 7 / 8 / 10 / 11,LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
Rear I/O	LAN	Intel®I219-V +i210AT Gigabit LAN,2*RJ45
	Display	VGA+HDMI+LVDS+DVI-D
	Audio	Realtek ALC662VD,Line-Out, Line-in, MIC.
	COM	5(COM2:RS232/422/485,COM3/4/5/6:RS232,COM2/3/4/5 Support 5/12V TTL)
	USB	4* USB 3.1 (Gen.2) port
	Expansion port	2*PCI-E x16 + 2*PCI-E x4 slots
Internal I/O	COM	5*RS232/RS422/RS485
	USB	2* USB3.0 +4* USB 2.0 + 1*USB2.0(Erect)
	Storage	6 * SATAIII (6.0Gb/s , Support RAID 0/1/5/10)
	GPIO	1* 16-bit GPIO header
	TPM	Depends on CPU model, support TPM
	PS/2	1*PS/2
	Port	1*SIM Card holder
	Function	2 * M.2 Key M slot(1*2242/2280/22110 (NVMe), 1*2242(SATA, Co-lay SATA4); 1*M.2 B slot(3042/3052,Support 3G/4G/5G Module); 1*M.2 E slot(2230,Support CNVi)
	Parallel port	1* Parallel port header
Power	Power Input	24+8Pin ATX power supply
	Input Voltage	+12V +5V +3.3V -12V
Structure	Dimension	244 * 244mm
Environment	Operating Environment	0℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-20°C ~ 85°C
Certificate	Safety Certification	CE
Parts List		I/O bezel, DB9 COM cable, USB cable

IPC-Q477 Industrial Motherboard		
System	CPU	Intel Core 10-11th Gen Core i7/i5/i3/Celeron/Pentium LGA1200
	Chipset	Q470E/Q470 TPD 6W
	RAM	DDR4-2400/2666/2933,4*U-DIMM up to 128GB
	BIOS	AMI UEFI
	Graphics	Intel® HD Graphics
	OS Support	WIN10/11, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
Rear I/O	LAN	2*RJ45, Intel219LM/i225V Gigbite LAN
	Display	VGA+HDMI+DP synchronous/asynchronous TRIPLE display
	Audio	5.1 Channel, 1*LINE-OUT, 1*MIC-IN, 1*LINE-IN
	COM	2*RS232/RS422/RS485
	USB	4*USB3.1(Gen1)
	Expansion port	1*PCIE X16 ,1*PCIE X8, 3*PCIE X4, 2*PCI
Internal I/O	COM	4*RS232 Header
	USB	2*USB3.0 Header,4*USB2.0Header, 2*USB(erect)
	Storage	6*SATA3.0, 1*M.2 NVME 2260/2280
	GPIO	16 bits digital I/O
	TPM	20Pin TPM Header
	CAN	4pin CAN port
	LPC	1*LPC socket
	PS/2	PS/2, 2 in 1
Power	Power Input	24+8Pin ATX power supply
	Input Voltage	+12V +5V +3.3V -12V
Structure	Dimension	305*245MM
Environment	Operating Environment	-20℃ ~60℃, 0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃, 0~95%RH, non-condensing
Certificate	Safety Certification	CE
Parts List		I/O bezel, DB9 COM cable, USB cable

IPC-Q677

IPC-Q677 Industrial Motherboard

System	CPU	Core 12-14th gen desktop platform
	Chipset	Q670
	Socket Type	LGA 1700
	RAM	4*DIMM DDR4 3200 UP to128GB
	BIOS	AMI EFI 256MBIT
	Graphics	Intel® HD Graphics
	OS Support	WIN10/11, LINUX,UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
Rear I/O	LAN	2*RJ45,Intel219/226 Gigbite LAN
	Display	VGA+HDMI+DP synchronous/asynchronous display
	Audio	5.1 Channel,1*LINE-OUT,1*MIC-IN,1*LINE-IN,support SPK
	COM	2*RS232/RS422/RS485
	USB	6*USB3.2
	PS/2	PS/2
Internal I/O	Expansion port	1*PCIEX16 ,1*PCIEX8,3*PCIEX4,2*PCI ,1*M.2
	COM	4*RS232 Header
	USB	2*USB2.0Header, 2*USB(erect)
	SATA	4*SATA
	GPIO	16 bits digital I/O,8*In,8*Out
	TPM	20Pin TPM Header
	CAN	4pin CAN port
	LPC	1*LPC socket
Power	Power Input	24+8Pin ATX power supply
	Input Voltage	+12V +5V +3.3V -12V
Structure	Dimension	305*245MM
Environment	Operating Environment	0℃ ~60℃ ,0~95%RH, non-condensing
	Storage Environment	-40℃ ~85℃ ,0~95%RH, non-condensing
Certificate	Safety Certification	CE,CCC

INDUSTRIAL COMPUTER

IPC (Industrial control computer) is a reinforced and enhanced personal computer. Industrial control computers, in general, are tools used to monitor and control production processes and mechanical and electrical equipment, as well as process equipment, using a bus structure. Industrial control computers possess important computer attributes and characteristics, such as a computer CPU, hard disk, memory, peripherals, and interfaces, and include an operating system, control network and protocols, computing power, and a user-friendly interface. Industrial control computers are often operated in harsh environments and have higher requirements for data security, so they are typically designed for reinforcement, dust prevention, moisture prevention, corrosion prevention, and radiation prevention, among other special designs.

The Characteristics of Industrial control computer (IPC)

1.Strong Customization:
As an Intel AIoT partner and industrial control product manufacturer, Fodenn has a modular design for its IPC products and also offers perfect customization of functions, performance, size, color, and appearance, according to customer demands.
2.Flexible Expansion of Industrial Buses and Expansion Modules:
● Some of the IPCs support the EASYBUS expansion structure, which makes it convenient for customers to achieve industrial field bus interface through various interfaces.
● Some of the IPCs have built-in CAN/POE/Ether-Cat interfaces and support expansion of multiple peripherals.
● Most of our products support wireless communication functions such as WIFI/4G/5G.
3.Superb Security:
Before shipping, the industrial control series products undergo electrostatic testing to ensure electrical safety for the customer. Customized industrial control units can also adopt leakage protection incoming switch and are equipped with overcurrent, overvoltage, and anti-failure protection measures.
4.IP65 grade NEMA4 Aluminum Enclosure:
Some products front panels that support IP65/NEMA4 protection rating, and the reinforced aluminum alloy rear cover ensures the robustness of the product while fulfilling the product's heat dissipation requirements.
5.Convenient Upgrades and Maintenance:
Fodenn's industrial control design enables customers to replace the HDD and memory easily.
In collaboration with Intel, Fodenn is developing KPMU2.1 which even allows remote maintenance even if the OS crashes, and has a USB feature that never disconnects.

Application Scenarios of Industrial Computers

Industrial computers feature characteristics such as high temperature resistance, dustproof, and anti-vibration, and are applicable in a variety of industrial scenarios:
Automated production line: Industrial computers are used to monitor equipment and processes on the production line, and to control production efficiency and quality.
Intelligent logistics: In the logistics sector, industrial computers are utilized to monitor logistics status and record logistics data to enhance logistics efficiency.
Industrial remote monitoring: Industrial computers are utilized for remote monitoring of factories, robots and other equipment to ensure production efficiency and device safety.
Industrial data analysis: Industrial computers are used for collecting and analyzing production data to improve production efficiency and enhance quality.
Industrial digital transformation: Industrial computers can assist enterprises in realizing industrial digital transformation to enhance production efficiency and quality.
Industrial Internet of Things (IIoT): Industrial computers can connect with other devices to achieve the IIoT, collecting and analyzing production data.

In conclusion, industrial computers possess characteristics such as high stability, high reliability, and high efficiency, meeting the diverse needs of the industrial automation sector and playing a crucial role in improving industrial production efficiency and quality.

IPC-AC200

IPC-AC300

IPC-AC200 Series Box		
System	CPU	Intel Celeron J1900
	Chipset	Bay Trail J1900
	RAM	1*DDR3L SO-DIMM, up to 8GB
	OS Support	WIN7/8/10, LINUX, UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
I/O Port	LAN	2*RJ45 Gigabit LAN
	Display	VGA+HDMI synchronous/asynchronous display
	Audio	1*LINE-OUT
	COM	4*COM(COM1/2 support RS422/RS485)
	USB	1*USB3.0, 4*USB2.0
	WIFI/4G	3G/4G/WiFi Optional
	Button/Indicator	1*POWER ON power indicator
Hard Disk	SSD	32GB/64GB/128GB/256GB/512GB
Power	Power Input	DC in
	Input Voltage	12V
Structure	Appearance	Black/Silver/Grey
	Material	Aluminum alloy + Sheet metal
	Installation Method	Embedded /Wall mount/ VESA Mount/Sliding Rail
	Dimensions	180*121.2*30mm
	Weight	1.8KG
Environment	Operating Environment	0℃ ~60℃ ,0~95%RH, non-condensing
	Storage Environment	-40℃ ~75℃ ,0~95%RH, non-condensing
Certificate	Safety certification	CE,CCC
Parts List		Power Adapter, Cable, Installation bracket

IPC-AC300 Series Box		
System	CPU	Intel Celeron J1900/J3455/3865U, Core 8-9th Gen U series
	Chipset	Intel SoC
	RAM	1*DDR3L SO-DIMM, up to 8GB
	OS Support	WIN7/8/10, LINUX, UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
I/O Port	LAN	2*RJ45 Gigabit LAN
	Display	VGA+HDMI synchronous/asynchronous display
	Audio	1*LINE-OUT,1*MIC IN
	COM	4*COM
	USB	6*USB
	WIFI/4G/5G	4G/5G/WiFi Optional
	Button/Indicator	1*POWER ON power indicator
Hard Disk	SSD	32GB/64GB/128GB/256GB/512GB
Power	Power Input	DC in
	Input Volatge	12V
Structure	Appearance	Black/Silver/Grey
	Material	Aluminum alloy + Sheet metal
	Installation Method	Embedded /Wall mount/ VESA Mount/Sliding Rail
	Dimensions	252*155*53mm
	Weight	2.0KG
Environment	Operating Environment	0℃ -60℃ ,0-95%RH, non-condensing
	Storage Environment	-40℃ -75℃ ,0-95%RH, non-condensing
Certificate	Safety certification	CE,CCC

Supported Motherboard Type	Specification
IPC-TGL35	Intel Core 11th gen, up to 32GB DDR4,
IPC-BT35	Intel Celeron J1900,up to 8GB DDR3L,
IPC-I1356P02	Intel Core 6-7gen U-Series, up to 8GB DDR3L,
IPC-EK35	Intel Celeron J6412,up to 16GB DDR4
Parts List	Power Adapter, Cable, Installation bracket

IPC-AC400

IPC-AC400 Series Box		
System	CPU	Intel Core 11th Gen Tiger Lake-U series/Celeron/Pentium
	RAM	2*DDR4 SO-DIMM 2400MHz, up to 64GB
	OS Support	WIN/10/11, LINUX, UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM
I/O Port	LAN	4*Intel I226LM (PoE +) + 2*Intel I226LM Gigabit LAN
	Display	1*HDMI
	COM	4*COM (COM1/2 support RS422/485)
	USB	2*USB3.0, 4*USB2.0
	WIFI/4G/5G	4G/5G/WiFi Optional
	Button/Indicator	1*POWER ON power indicator
Hard Disk	SSD	32GB/64GB/128GB/256GB/512GB
	HDD	500GB/1TB/4TB
Power	Power Input	DC in
	Input Volatge	9~36V
Structure	Appearance	Black
	Material	Aluminum alloy + Sheet metal
	Installation Method	Embedded /Wall mount/ VESA Mount/Sliding Rail
	Dimensions	232*200*78mm
	Weight	2.45kg
Environment	Operating Environment	0℃ -60℃ ,0-95%RH, non-condensing
	Storage Environment	-40℃ -75℃ ,0-95%RH, non-condensing
Certificate	Safety certification	CE,CCC
	Parts List	Power Adapter, Cable, Installation bracket

IPC-AC500

IPC-A500 Series Box		
System	CPU	Intel 12th Gen Alder lake-N, N95, N100,N200,N305,default N100
	RAM	1 x SO-DIMM DDR4 -3200 ,max support 32GB
	OS Support	WIN/10/11, LINUX, UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM
I/O Port	LAN	4 x LAN port, RJ45, Intel I225/ I226 chipset, (One of POE supported for powering)
	Display	DP + HDMI
	COM	The LAN can be reserved for COM ports (Reserve Power Socket)
	USB	1 x USB3.2, 1 x USBC, 4 x USB2.0 (2 x USB2.0 pins)
	WIFI/4G/5G	4G/5G/WiFi Optional
	Button/Indicator	1*POWER ON power indicator
Hard Disk	SSD	32GB/64GB/128GB/256GB/512GB
	HDD	500GB/1TB/4TB
Power	Power Input	DC in
	Input Volatge	+12V
Structure	Appearance	Black
	Material	Aluminum alloy + Sheet metal
	Installation Method	Embedded /Wall mount/ VESA Mount/Sliding Rail
	Dimensions	155*130*60mm
	Weight	1.8kg
Environment	Operating Environment	0℃ -60℃, 0-95%RH, non-condensing
	Storage Environment	-40℃ -75℃, 0-95%RH, non-condensing
Certificate	Safety certification	CE
	Parts List	Power Adapter, Cable, Installation bracket

IPC-HC1210

IPC-HC1210 Series Industrial Computer		
System	CPU	Intel Core 4th Gen mobile platform/Celeron J1900
	RAM	1*DDR3L SO-DIMM,up 8GB
	OS Support	WIN7/8/10/11, LINUX, UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM2.0
I/O Port	LAN	2*RJ45 Gigabit LAN
	Display	VGA+HDMI synchronous/asynchronous display
	Audio	1*LINE-OUT,1*MIC IN
	COM	6*COM up to 10*COM
	USB	8*USB
	PS/2	1*PS/2, 2in1
	WIFI/4G/5G	4G/5G/WiFi Optional
	System Restore	1*4PIN Phoenix extension, reset
	Button/Indicator	1*POWER ON 1*HDD-LED
	GPIO	Optional
Hard Disk	SSD	32GB/64GB/128GB/256GB/512GB/1TB
	HDD	500GB/1TB/4TB
Power	Power Input	DC in
	Input Volatge	12V
Structure	Appearance	Black/Silver/Grey
	Installation Method	Embedded /Wall mount/ VESA Mount/Sliding Rail
	Dimensions	243*69*146mm
	Weight	2.0KG
Environment	Operating Environment	0℃ -60℃ ,0-95%RH, non-condensing
	Storage Environment	-40℃ -75℃ ,0-95%RH, non-condensing
Certificate	Safety certification	CE,CCC

Supported Motherboard Type	Specification
IPC-TGL35	Intel Core 11th gen, up to 32GB DDR4,
IPC-BT35	Intel Celeron J1900,up to 8GB DDR3L,
IPC-I1356P02	Intel Core 6-7gen U-Series, up to 8GB DDR3L,
IPC-EK35	Intel Celeron J6412,up to 16GB DDR4
Parts List	Power Cable, Installation bracket

IPC-HC5043

IPC-HC5043 Series Industrial Computer		
System	CPU	Intel Core 6-12th Gen desktop platform
	Chipset	H110,H310,H510 H610
	RAM	DDR4 SO-DIMM up to 32GB
	OS Support	WIN7/8/10/11, LINUX, UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM2.0
I/O Port	LAN	2*RJ45 Gigabit LAN
	Display	VGA+HDMI synchronous/asynchronous display
	Audio	1*LINE-OUT,1*MIC IN,1*LINE-IN
	COM	10*COM
	USB	14*USB
	PS/2	1*PS/2, 2in1
	WIFI/4G/5G	4G/5G/WiFi Optional
	System Restore	1*4PIN Phoenix extension, reset
	Button/Indicator	1*POWER ON 1*HDD-LED
	GPIO	Optional
Hard Disk	SSD	32GB/64GB/128GB/256GB/512GB/1TB...
	HDD	500GB/1TB/4TB
Power	Power Input	M-ATX power supply
	Input Volatge	90-264V
Structure	Appearance	Black
	Installation Method	Embedded /Wall mount/ VESA Mount/Sliding Rail
	Dimensions	260*204.6*131.3MM without bracket
	Weight	3.8KG
Environment	Operating Environment	0℃ -60℃ ,0-95%RH, non-condensing
	Storage Environment	-40℃ -85℃ ,0-95%RH, non-condensing
Certificate	Safety certification	CE,CCC

Supported Motherboard Type	Specification
IPC-I1150P04	Intel Core 4th Gen platform,up to 16GB DDR4,6*USB3.0,8*USB2.0,10*COM
IPC-I1151P03	Intel Core 6-9th Gen platform,up to 32GB DDR4,8*USB3.0,6*USB2.0,10*COM
IPC-H310P01	Intel Core 8-9th Gen platform,up to 32GB DDR4,8*USB3.0,6*USB2.0,10*COM
IPC-H5110C	Intel Core 10-11th Gen platform, up to 64GB DDR4 2666MHz, 8*USB3.0, 6*USB2.0, 12*COM
IPC-H61010C	Intel Core 12th Gen platform, up to 64GB DDR4 2666MHz, 8*USB3.0, 6*USB2.0, 10*COM
Parts List	Power Cable, Installation bracket

IPC-HC3100CP005

IPC-HC3100CP005 Series Industrial Computer		
System	CPU	Intel Core 6-12th Gen desktop platform
	Chipset	H110,H310,H510 H610
	RAM	DDR4 SO-DIMM up to 64GB
	OS Support	WIN7/8/10/11, LINUX, UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	Depends on CPU model, support TPM2.0
I/O Port	LAN	2*RJ45 Gigabit LAN
	Display	VGA+HDMI synchronous/asynchronous display
	Audio	1*LINE-OUT,1*MIC IN,1*LINE-IN
	COM	6*COM, up to 14*COM
	USB	10*USB, up to 22*USB
	PS/2	1*PS/2, 2in1
	WIFI/4G/5G	4G/5G/WiFi Optional
	System Restore	1*4PIN Phoenix extension, reset
	Button/Indicator	1*POWER ON 1*HDD-LED
	GPIO	Optional
Hard Disk	SSD	32GB/64GB/128GB/256GB/512GB/1TB...
	HDD	500GB/1TB/4TB
Power	Power Input	M-ATX power supply
	Input Volatge	90-264V
Structure	Appearance	Black/Grey
	Installation Method	Embedded
	Dimensions	320*320*131.4MM without bracket
	Weight	5.3KG
Environment	Operating Environment	0℃ -60℃ ,0-95%RH, non-condensing
	Storage Environment	-40℃ -75℃ ,0-95%RH, non-condensing
Certificate	Safety certification	CE,CCC

Supported Motherboard Type	Specification
IPC-I1150P04	Intel Core 4th Gen platform,up to 16GB DDR4, 6*USB3.0,8*USB2.0,10*COM
IPC-I1151P03	Intel Core 6-9th Gen platform,up to 32GB DDR4,8*USB3.0,6*USB2.0,10*COM
IPC-H310P01	Intel Core 8-9th Gen platform,up to 32GB DDR4,8*USB3.0,6*USB2.0,10*COM
IPC-H5110C	Intel Core 10-11th Gen platform, up to 64GB DDR4 2666MHz, 8*USB3.0, 6*USB2.0, 12*COM
IPC-H61010C	Intel Core 12th Gen platform, up to 64GB DDR4 2666MHz, 8*USB3.0, 6*USB2.0, 10*COM
Parts List	Power Cable, Installation bracket

IPC-M4U

IPC-M4U Series Industrial Computer		
System	CPU	Intel Core 10/11th Gen desktop platform
	Chipset	Q470E
	RAM	DDR4 SO-DIMM,up to 128GB
	OS Support	WIN/10/11, LINUX, UNIX
	Watchdog	256 levels, programmable 0-255 sec/min
	TPM	TPM2.0
I/O Port	LAN	2*RJ45 Gigabit LAN
	Display	VGA+HDMI+DP synchronous/asynchronous TRIPLE display
	Audio	1*LINE-OUT,1*MIC IN,1*LINE-IN
	COM	6*COM
	USB	6*USB3.0 6*USB2.0
	PS/2	1*PS/2, 2in1
	WIFI/4G/5G	Option 4G/5G/WiFi
	System Restore	1*4PIN Phoenix extension, reset
	Button/Indicator	1*POWER ON 1*HDD-LED
	GPIO	Optional
Hard Disk	SSD	32GB/64GB/128GB/256GB/512GB/1TB...
	HDD	500GB/1TB/4TB
Power	Power Input	ATX power supply
	Input Volatge	90-264V
Structure	Appearance	Black/White
	Installation Method	Sliding Rail
	Dimensions	650*430*176MM
	Weight	10KG
Environment	Operating Environment	0℃ -60℃ ,0-95%RH, non-condensing
	Storage Environment	-40℃ -75℃ ,0-95%RH, non-condensing
Certificate	Safety certification	CE,CCC
	Parts List	Power Cable

MINI PC

Mini PC□mini personal computer), a small form factor (SFF) computer, is a compact desktop computer designed to deliver robust performance within a diminutive footprint. Unlike traditional desktop towers, Mini PCs pack powerful components into a significantly smaller chassis, making them ideal for environments with limited space or those prioritizing aesthetics without sacrificing computing power.

Key Features and Benefits:

Space Efficiency:
Mini PCs epitomize space-saving design, offering robust computing power within a compact footprint. Their diminutive size makes them perfect for environments where space is at a premium, such as small offices, classrooms, or even entertainment centers in homes.

Portability:
Designed for mobility, Mini PCs are lightweight and easy to transport. This makes them ideal for professionals on the move, enabling seamless transitions between workspaces or facilitating on-the-go computing needs for digital nomads and remote workers.

Energy Efficiency:
Mini PCs are engineered to consume minimal power without compromising performance. Their energy-efficient operation not only reduces electricity bills but also contributes to sustainability efforts by minimizing carbon footprint.

Performance Prowess:
Despite their compact size, Mini PCs pack a punch in terms of performance. Equipped with high-speed processors, ample RAM, and SSD storage, they excel in handling diverse computing tasks ranging from everyday productivity to multimedia editing and light gaming.

Common Applications:

Home Entertainment Hub:
Transform your living room into a multimedia paradise with a Mini PC serving as a compact entertainment hub. Stream movies,or browse the web on your TV with ease, enjoying high-definition content without cluttering your space.

Office Productivity Powerhouse:
In corporate settings, Mini PCs shine as efficient workstations, enabling seamless productivity with applications like document editing, email management, and video conferencing. Their small footprint optimizes desk space while maximizing productivity.

Gaming :
Equipped with powerful processors, Mini PCs deliver impressive gaming performance without the bulk of traditional gaming desktops. Whether you're a casual gamer or a competitive enthusiast, Mini PCs offer the perfect blend of performance and portability for gaming

Educational Environments:
Mini PCs are invaluable assets in educational institutions, providing students and educators with access to educational resources, interactive learning tools, and collaborative platforms. Deploy them in classrooms, libraries, or computer labs to facilitate modern teaching and learning experiences.

F10

CPU : Intel Alder Lake-N N95 / N100 / N300
USB : 4*USB 3.2
Display : 2* HDMI
Other : 1*LAN

F20

CPU : AMD Ryzen 7 series (6800U / 6800H / 7735U)
USB :1*Thunderbolt + 1*Type C + 2*USB 3.2 + 2*USB 2.0
Display :1*DP+1*HDMI
Other : 2*LAN, 1*Audio

F30

CPU : Intel Alder Lake-N N95 / N100 / N300
USB : 3*USB 3.0 + 1*Type C Port
Display : 3*HDMI
Other : 2*LAN, 1*Audio

F40

CPU :Intel Core Ultra 5 / 7 / 9
USB:1*Thunderbolt + 1*Type C + 2*USB 3.2 + 2*USB 2.0
Display:1*DP+1*HDMI
Other: 2*LAN, 1*Audio

Industrial Panel PC

Fodenn possesses in-house developed embedded motherboards, molds, custom development, and modular design capabilities in the industrial tablet market. Through flexible combinations, various product specifications can be achieved without the need to alter the customer's original design. This enables rapid upgrades and maintenance, allowing customers to experience seamless, unobstructed processes in the future, including product upgrades, selection, testing, maintenance, and production.

INtime for Windows · EC→Win · QNX SOFTWARE SYSTEMS · VxWorks WIND RIVER · Windows Embedded · CE · FC · UKCA · RoHS COMPLIANT 2002/95/EC

Operating System: Win7/WES7/Win10/Linux/Vxworks/Qnx etc.
Processor: Intel Celeron J1900/ J6412/ Core 4-12th i3/i5/i7 all series CPU
Display Screen Size: 8/10.1/12.1/15/15.6/17/19/21.5 etc.
Touch Screen Type: 5-wire resistive touch screen/multi-touch projected capacitive touch screen/capacitive electromagnetic touch screen

Product Features

1.Multiple Wireless Connectivity Modes: Equipped with RJ45, this product supports WiFi, Bluetooth, 4G/5G multiple wireless connectivity modes, facilitating remote control by industrial customers and use in unmanned factories.
2.Flexible Modular Design: Display module and host adopt modular design, with multiple specifications available in the same series. Fodenn, as a member of Intel AIot Solutions Alliance, is compatible with all series of solutions currently released by Intel.
3.Flexible Extension of CAN, Profibus and Other Industrial Bus Modules: Some hosts support EASYBUS expansion structure, allowing customers to achieve various industrial site bus interfaces through MiniPCIE. Some hosts also have built-in CAN interfaces.
4.IP65 and NEMA4 Aluminum Housing: Some products adopt front panels that support 4.IP65/NEMA4 protection levels, along with thick aluminum alloy back covers, ensuring product durability and effective heat dissipation.
5.Support for EtherCAT and Various Peripheral Extensions: Equipped with Intel network card chips, this product ensures 2500M communication speed and supports high-speed EtherCAT and jumbo frames. Without a fan, it can support up to 6*network ports, 4*POE/6COM, with 2* 422/485 optional/8*USB, 4 of which are USB3.1 working at the same time and supporting 5G communication/WIFI 6 capabilities.

Multiple Installation Methods

Support Embedded, various VESA wall-mounted, Slide rail installation

Application Scenario

10.1inch   IPC-HC1301

IPC-HC1301 Series 10.1inch Industrial Panel PC		
Display	Screen Type	10.1inch display panel
	Resolution	1280x800
	Display Area	216.96x135.6mm(WxH)
	Back Light(MTBF)	WLED+30,000 Hours
	Brightness (cd/m²)	250 cd/m²
	Contrast Ratio	800:1
	Response Time	30ms
Touch Screen	Screen Type	10 point capacitive touch
	Surface Hardness	≧ 6H (JIS-5400)
I/O Port	LAN	2*RJ45 Gigabit LAN
	Display	VGA+HDMI
	Audio	1*LINE-OUT，1*MIC-IN，build-in speaker
	COM	2*COM，support up to 4*COM
	USB	4*USB, support up to 6*USB
	WiFi/4G	Optional
	GPIO	Optional
	Button	1*POWER ON
System	CPU	Intel Core 7/11th Gen U-series/ Celeron J1900/3865U/J6412
	RAM	4-32GB
	Cooling	Fanless
	OS Support	WIN7/8/10/11, LINUX, UNIX
Storage	Msata SSD	32GB/64GB/128GB/256GB/512GB
Power	Power Input	DC in
	Input Voltage	12V
Structure	Appearance	Black/Silver
	Material	Aluminium alloy+Sheet metal
	Installation Method	Embedded /Wall mount
	Dimensions	273*192*64mm
	Recommended Hole Size	
	Weight	2.0kg
Environment	Operating Environment	-10℃ ~60℃，0~95%RH,non-condensing
	Storage Environment	-20℃ ~70℃，0~95%RH,non condensing
Waterproof	Front Panel	IP65
Customization	Support	BIOS, LOGO, Color, Size

Supported Motherboard Type	Specifications
IPC-TGL35	Intel Core 11th Gen, up to 32GB DDR4,
IPC-BT35	Intel Celeron J1900, up to 8GB DDR3L,
IPC-I1356P02	Intel Core 7th Gen U-Series, upo to 8GB DDR3L,
IPC-EK35	Intel Celeron J6412, up to16GB DDR4
Parts List	Power Adapter, Cable, Installation bracket

21.5inch IPC-HC1321

IPC-HC1321 Series 21.5inch Industrial Panel PC		
Display	Screen Type	21.5inch display panel
	Resolution	1920x1080
	Display Area	476.64 × 268.11mm(WxH)
	Back Light(MTBF)	WLED+30,000 Hours
	Brightness (cd/m²)	250 cd/m²
	Contrast Ratio	1000:1
	Response Time	14ms
Touch Screen	Screen Type	10 point capacitive touch
	Surface Hardness	≧ 6H (JIS-5400)
I/O Port	LAN	2*RJ45 Gigabit LAN
	Display	VGA+HDMI
	Audio	1*LINE-OUT, 1*MIC-IN, build-in speaker
	COM	2*COM , support up to 4*COM
	USB	4*USB, support up to 6*USB
	WiFi/4G	Optional
	GPIO	Optional
	Button	1*POWER ON
System	CPU	Intel Core 7/11th Gen U-series/ Celeron J1900/3865U/ J6412
	RAM	4-32GB
	Cooling	Fanless
	OS Support	WIN7/8/10/11, LINUX, UNIX
Storage	Msata SSD	32GB/64GB/128GB/256GB/512GB
Power	Power Input	DC in
	Input Voltage	12V
Structure	Appearance	Black/Silver/Grey
	Material	Aluminium alloy+SUS/platemetal
	Installation Method	Embedded /Wall mount/ VESA Mount
	Dimensions	525*317*82mm
	Recommanded Hole Size	527*319mm
	Weight	6.0kg
Environment	Operating Environment	-10℃ ~60℃, 0~95%RH,non-condensing
	Storage Environment	-20℃ ~70℃, 0~95%RH,non-condensing
Waterproof	Front Panel	IP65
Customization	Support	BIOS, LOGO, Color, Size

Supported Motherboard Type	Specifications
IPC-TGL35	Intel Core 11th Gen, up to 32GB DDR4,
IPC-BT35	Intel Celeron J1900, up to 8GB DDR3L,
IPC-I1356P02	Intel Core 7th Gen U-Series, upo to 8GB DDR3L,
IPC-EK35	Intel Celeron J6412, up to16GB DDR4
Parts List	Power Adapter, Cable, Installation bracket

PCMT-516S

Features

Slim type clinics payment terminal ,the basic configuration consists of Motherboard, power module, touch screen display, four-in-one card reader (including ID card reader, magnetic card reader, contact IC card module, contactless card reader) 、barcode scanner, password keyboard, thermal printer and so on. Extensible components include cameras, wireless modules, etc. It can provide a human-computer interaction interface to reduce person-to-person contact, and support contactless payment methods and contactless person authentication methods.

Specifications

Motherboard	Processor	Intel Celeron J1900,Core i3/i5/i7
	Network support	RJ-45 LAN interface and LED indicator
Touch screen	Model	15.6-inch capacitive touch screen
	Interface form	USB2.0
	Response time	less than 10 milliseconds
15.6-inch LCD screen	Resolution	1920 * 1080
	Backlight	WLED
	Interface mode	EDP
Magnetic card reader	Magnetic stripe standard	ISO7810 / 7811
	Operation mode	Support 1/2/3 track reading
Contact IC card module	IC card standard	ISO7816 type 5V 5B type 3V card and support SLE4428, SLE4442, AT88SC1604 type memory card
	Card reading and writing speed	9600-96700bps
Contactless card reader	Support card type	Comply with ISO14443 TypeA & B type CPU card, S50, S70 card
	Working frequency	13.56MHz ± 7kHz
	Communication parameters	1200/2400/4800 / 9600BPS optional
	Read and write speed	106Kbps
	Contact IC card communication distance	0-30MM
Thermal printer	Printing method	Line thermal
	Print speed	75mm / sec
	Print paper width	57.5 ± 0.5mm
	Limited printing width	58mm
	Paper processing method	Automatic paper cutting (full or half cut)
Password keyboard	Key configuration	10 numeric keys, 6 function keys
	Function support	PIN encryption, MAC operation, data encryption and decryption, remote key management
	Algorithm support	DES, Triple DES, RSA, SM2, SM3, SM4
Temperature Measurement	Optional	Support high and low temperature warning of human body, error ± 0.2 ℃ above 1 meter, can support thermal imaging
Power	Voltage	110-264V
	Working environment	-20-60 ℃ , 20-90% RH

Wall Mount Payment Kiosk

PCMT-516K

Features

Clinics payment terminal , the basic configuration consists of a 23.6-inch touch display integrated screen, password keyboard, barcode scanner, contactless IC card reader, ID card reader, magnetic stripe reader, contact IC card reader, camera, receipt printer. It can provide a human-computer interaction interface to reduce person-to-person contact, and support contactless payment methods and contactless person authentication methods. Provide self-service medical services, divert artificial pressure, improve medical service capabilities

Specifications

Motherboard	Processor	Intel Celeron J1900,Core i3/i5/i7
	Network support	RJ-45 LAN interface and LED indicator
Touch screen	Model	23.6-inch capacitive touch screen
	Interface form	USB2.0
	Response time	less than 10 milliseconds
23.6-inch LCD screen	Resolution	1920 * 1080
	Backlight	WLED
	Interface mode	EDP
Magnetic card reader	Magnetic stripe standard	ISO7810 / 7811
	Operation mode	Support 1/2/3 track reading
Contact IC card module	IC card standard	ISO7816 type 5V 5B type 3V card and support SLE4428, SLE4442, AT88SC1604 type memory card
	Card reading and writing speed	9600-96700bps
Contactless card reader	Support card type	Comply with ISO14443 Type A & B type CPU card, S50, S70 card
	Working frequency	13.56MHz ± 7kHz
	Communication parameters	1200/2400/4800 / 9600BPS optional
	Read and write speed	106Kbps
	Contact IC card communication distance	0-30MM
Thermal printer	Printing method	Line thermal
	Print speed	75mm / sec
	Print paper width	57.5 ± 0.5mm
	Limited printing width	58mm
	Paper processing method	Automatic paper cutting (full or half cut)
Password keyboard	Key configuration	10 numeric keys, 6 function keys
	Function support	PIN encryption, MAC operation, data encryption and decryption, remote key management
	Algorithm support	DES, Triple DES, RSA, SM2, SM3, SM4
Temperature Measurement	Optional	Support high and low temperature warning of human body, error ± 0.2 ℃ above 1 meter, can support thermal imaging
Power	Voltage	110-264V
	Working environment	-20-60 ℃ , 20-90% RH

Certification

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