1168-12-2L2C

Product Features

The 1168-12-2L2C is a compact Nano-ITX industrial motherboard based on the 4th Gen Intel Core processor platform. Despite its small footprint, it integrates dual Gigabit Ethernet, two DB9 serial ports, rich USB connectivity, and high-definition display outputs. Designed for space-constrained environments, it delivers a strong balance of performance, connectivity, and reliability.

Application Scenarios

Embedded Terminal

IoT Gateway

Industrial Automation

Digital Signage

Category	Item	Specification
Processor	Product Collection	4th Gen Intel Core Processor
	Sockets Supported	FCBGA1168
Memory specifications	Memory Type	DDR3L SO-DIMM 1.35V
	Maximum Capacity	8GB
	Maximum Frequency	1333/1600 MHz
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)
	mSATA	1*mSATA
Network features	Ethernet	2*1GbE
	Controller	2*Realtek 8111
Extension interface	mPCIe	1*mPCIe
Display functions	Port	1*VGA/1*HD
	Chip	Intel HD Graphics
Backplane I/O	Ethernet	2*RJ45
	COM	2*DB9 COM RS232/RS485
	Power supply	1*Jack DC 5.5/2.5mm
	Display	1*VGA/1*HD
	USB	2*USB-A 2.0, 4*USB-A 3.0
	Button	1*Power Button
Onboard I/O	SATA	1*SATA Data connector/1*SATA Power socket
	SIM	1*SIM Card solts
	Fan	1*CPU fan power socket
	Pins	1*F_PANEL
		1*F_USB 3.0
Power supply mode	DC	12V
Motherboard size	Specification	120*120 (mm)
Work Environment	Temperature	-20~55℃
	Humidity	5%~90% (Relative humidity, no condensation)

G30-1168-2L2C

Product Features

The G30-1168-2L2C is an ultra-compact fanless embedded industrial PC built on the 4th Gen Intel processor platform. Despite its palm-sized chassis, it integrates dual Gigabit Ethernet ports, two serial interfaces, rich USB connectivity, and industrial-grade reliability. Designed for space-constrained environments requiring silent operation and stable performance, it is ideal for industrial automation, IoT gateways, network security appliances, and commercial terminals.

Application Scenarios

Management Terminal

IoT Gateway

Industrial Automation

Digital Signage

Processor	Product Collection	4th Gen Intel Core Processor	
	Sockets Supported	FCBGA1168	
Memory specifications	Memory Type	DDR3L SO-DIMM 1.35V	
	Maximum Capacity	8GB	
	Maximum Frequency	1333/1600 MHz	
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)	
	mSATA	1*mSATA	
Network features	Ethernet	2*1GbE	
	Controller	2*Realtek 8111	
Interface	Front Panel	Power	1*Jack DC_IN
		Display	1*VGA/1*HD
		Ethernet	2*RJ45
		USB	2*USB-A 2.0
		Antenna hole	2*Reserved
	Back Panel	Button	1*Start or Restart
		USB	4*USB-A 3.0
		Serial port	2*DB9 COM
		Audio	1*3.5mm Audio
Extension interface	mPCIe	1*mPCIe	
Cooling Method	Passive Cooling, Fanless (Need air flow)		
System Specifications	Chassis Size	136*126*40 (mm)	
	Weight	Equipment Weight 0.65 KG; Package Weight 1.25 KG (including accessories)	
Power Mode	DC	12V 4A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	

G40-1168-2L2C

Product Features

The G40-1168-2L2C is a compact fanless embedded industrial PC powered by a 4th Gen Intel processor. Within its slim metal chassis, it integrates dual Gigabit Ethernet ports, dual serial interfaces, dual display outputs, and industrial-grade reliability. Designed for applications requiring silent operation, stable performance, and rich connectivity, it is ideal for industrial automation, IoT gateways, network security, and commercial terminals.

Application Scenarios
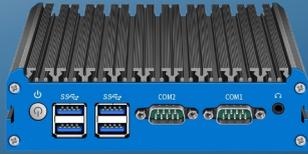
Management Terminal

IoT Gateway

Industrial Automation

Digital Signage

Category		Specification	
Processor	Product Collection	4th Gen Intel Core Processor	
	Sockets Supported	FCBGA1168	
Memory specifications	Memory Type	DDR3L SO-DIMM 1.35V	
	Maximum Capacity	8GB	
	Maximum Frequency	1333/1600 MHz	
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)	
	mSATA	1*mSATA	
Network features	Ethernet	2*1GbE	
	Controller	2*Realtek 8111	
Interface	Front Panel	Power	1*Jack DC_IN
		Display	1*VGA/1*HD
		Ethernet	2*RJ45
		USB	2*USB-A 2.0
		Antenna hole	2*Reserved
	Back Panel	Button	1*Start or Restart
		USB	4*USB-A 3.0
		Serial port	2*DB9 COM
		Audio	1*3.5mm Audio
Extension interface	mPCIe	1*mPCIe	
Cooling Method		Passive Cooling, Fanless (Need air flow)	
System Specifications	Chassis Size	160*125*36 (mm)	
	Weight	Equipment Weight 1.05 KG; Package Weight 1.65 KG (including accessories)	
Power Mode	DC	12V 4A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	

G48-1168-2L2C

Product Features

The G48-1168-2L2C is an ultra-compact fanless embedded industrial PC built on the 4th Gen Intel processor platform. Despite its palm-sized chassis, it integrates dual Gigabit Ethernet ports, two serial interfaces, rich USB connectivity, and industrial-grade reliability. Designed for space-constrained environments requiring silent operation and stable performance, it is ideal for industrial automation, IoT gateways, network security appliances, and commercial terminals.

Application Scenarios

Management Terminal

IoT Gateway

Industrial Automation

Digital Signage

Category		Specification	
Processor	Product Collection	4th Gen Intel Core Processor	
	Sockets Supported	FCBGA1168	
Memory specifications	Memory Type	DDR3L SO-DIMM 1.35V	
	Maximum Capacity	8GB	
	Maximum Frequency	1333/1600 MHz	
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)	
	mSATA	1*mSATA	
Network features	Ethernet	2*1GbE	
	Controller	2*Realtek 8111	
Interface	Front Panel	Power	1*Jack DC_IN
		Display	1*VGA/1*HD
		Ethernet	2*RJ45
		USB	2*USB-A 2.0
		Antenna hole	2*Reserved
	Back Panel	Button	1*Start or Restart
		USB	4*USB-A 3.0
		Serial port	2*DB9 COM
		Audio	1*3.5mm Audio
Extension interface	mPCIe	1*mPCIe	
Cooling Method	Passive Cooling, Fanless (Need air flow)		
System Specifications	Chassis Size	134*125*40 (mm)	
	Weight	Equipment Weight 0.65 KG; Package Weight 1.15 KG (including accessories)	
Power Mode	DC	12V 4A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	

H30-1168-2L2C

Product Features

The H30-1168-2L2C is an ultra-compact fanless embedded industrial PC built on the 4th Gen Intel processor platform. Despite its palm-sized chassis, it integrates dual Gigabit Ethernet ports, two serial interfaces, rich USB connectivity, and industrial-grade reliability. Designed for space-constrained environments requiring silent operation and stable performance, it is ideal for industrial automation, IoT gateways, network security appliances, and commercial terminals.

Application Scenarios

Management Terminal

IoT Gateway

Industrial Automation

Digital Signage

Processor	Product Collection	4th Gen Intel Core Processor	
	Sockets Supported	FCBGA1168	
Memory specifications	Memory Type	DDR3L SO-DIMM 1.35V	
	Maximum Capacity	8GB	
	Maximum Frequency	1333/1600 MHz	
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)	
	mSATA	1*mSATA	
Network features	Ethernet	2*1GbE	
	Controller	2*Realtek 8111	
Interface	Front Panel	Power	1*Jack DC_IN
		Display	1*VGA/1*HD
		Ethernet	2*RJ45
		USB	2*USB-A 2.0
		Antenna hole	2*Reserved
	Back Panel	Button	1*Start or Restart
		USB	4*USB-A 3.0
		Serial port	2*DB9 COM
		Audio	1*3.5mm Audio
Extension interface	mPCIe	1*mPCIe	
Cooling Method	Passive Cooling, Fanless (Need air flow)		
System Specifications	Chassis Size	136*126*40 (mm)	
	Weight	Equipment Weight 0.65 KG; Package Weight 1.25 KG (including accessories)	
Power Mode	DC	12V 4A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	

G590-1168-2L2C

Product Features

The G590-1168-2L2C is a compact fanless embedded industrial PC built on the 4th Gen Intel processor platform. Housed in a durable metal chassis, it integrates dual Gigabit Ethernet ports, two serial interfaces, and rich USB connectivity with industrial-grade reliability. Designed for applications requiring silent operation, stable performance, and versatile connectivity, it is ideal for industrial automation, IoT gateways, network security, and commercial terminals.

Application Scenarios

Management Terminal

IoT Gateway

Industrial Automation

Digital Signage

Category	Sub-category	Specification	
Processor	Product Collection	4th Gen Intel Core Processor	
	Sockets Supported	FCBGA1168	
Memory specifications	Memory Type	DDR3L SO-DIMM 1.35V	
	Maximum Capacity	8GB	
	Maximum Frequency	1333/1600 MHz	
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)	
	mSATA	1*mSATA	
Network features	Ethernet	2*1GbE	
	Controller	2*Realtek 8111	
Interface	Front Panel	Power	1*Jack DC_IN
		Display	1*VGA/1*HD
		Ethernet	2*RJ45
		USB	2*USB-A 2.0
		Antenna hole	2*Reserved
	Back Panel	Button	1*Start or Restart
		USB	4*USB-A 3.0
		Serial port	2*DB9 COM
		Audio	1*3.5mm Audio
Extension interface	mPCIe	1*mPCIe	
Cooling Method	Passive Cooling, Fanless (Need air flow)		
System Specifications	Chassis Size	178*126*56 (mm)	
	Weight	Equipment Weight 1.15 KG; Package Weight 1.85 KG (including accessories)	
Power Mode	DC	12V 4A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	