



1090NP-12-4L

Product Features

The 1090NP-12-4L is a compact embedded network motherboard designed for applications such as firewalls, industrial IoT gateways, VPNs, lightweight virtualization, and edge data processing. The motherboard features 4x 2.5Gb Ethernet ports, supporting low-power, high-bandwidth data transmission, DDR4 memory, wide operating temperature range, and flexible storage and expansion slots, making it widely applicable in network environments requiring stability, energy efficiency, and high network throughput.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Products formerly Gemini Lake/Gemini Lake-R
	Sockets Supported	FCBGA1090
	Memory Type	DDR4 SO-DIMM
Memory specifications	Maximum Capacity	8GB
	Maximum Frequency	2400 MHz
	SATA	1*SATA 2.0 (3Gb/s)
Storage specifications	mSATA	1*mSATA
	Ethernet	4*2.5GbE
Network features	Controller	4*Intel I226V
	Extension interface	mPCIe 1*mPCIe
Display functions	Port	1*VGA/1*HD
	Chip	Intel HD Graphics
Backplane I/O	USB	2*USB-A 3.0
	Display	1*VGA/1*HD
	Ethernet	4*RJ45
Onboard I/O	Button	1*SYS Restart Button, 1*Power Button
	Power supply	1*Jack DC 5.5/2.5mm
	SATA	1*SATA Data connector/1*SATA Power socket
Onboard I/O	SIM	1*SIM Card slots
	Fan	1*CPU fan power socket

	Pins	1*F_PANEL 1*J_COM
Power supply mode	DC	12V
Motherboard size	Specification	120*120 (mm)
Work Environment	Temperature	-20~55℃
	Humidity	5%~90% (Relative humidity, no condensation)



G30-1090NP-4L

Product Features

The G30-1090NP-4L is an ultra-compact, fanless embedded industrial PC based on the Intel Gemini Lake platform, featuring an ultra-thin metal chassis. This device integrates 4x 2.5G Ethernet ports, employs a passive cooling architecture, and weighs less than 1 KG. With its extremely compact design, quiet operation, and reliable network performance, it is an ideal solution for building space-sensitive network devices, industrial control, and embedded applications.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Products formerly Gemini Lake/Gemini Lake-R		
	Sockets Supported	FCBGA1090		
	Memory Type	2*DDR4 SO-DIMM		
Memory specifications	Maximum Capacity	8GB		
	Maximum Frequency	2400 MHz		
	Storage	SATA	1*SATA 2.0 (3Gb/s)	
Storage specifications	mSATA	1*mSATA		
	Front Panel	Ethernet	4*RJ45	
Power		1*Jack DC_IN		
Button		1*Start or Restart		
Interface	Back Panel	USB	2*USB-A 3.0	
		Display	1*VGA/1*HD	
	Antenna hole	2*Reserved		
	Extension interface	mPCIe	1*mPCIe	
Cooling Method	Passive Cooling, Fanless (Need air flow)			
System Specifications	Chassis Size	136*126*40 (mm)		
	Equipment Weight	Equipment Weight		
	Weight	0.65 KG; Package Weight 1.25 KG (including accessories)		
Power Mode	DC	12V 4A or Higher		
Work Environment	Temperature	0~50°C		
	Humidity	5%~90% (Relative humidity, no condensation)		