



1449NP-12-4L

Product Features

The 1449NP-12-4L is an ultra-compact industrial motherboard built on the 11th Gen Intel Tiger Lake platform. It overcomes the traditional trade-off between high performance and compact design by integrating 4x 2.5GbE high-speed network ports into a small form factor, delivering strong computing power with industrial-grade reliability. Designed for high-performance, low-latency, multi-port edge networking and industrial applications, it is an ideal solution for high-density deployments and space-constrained environments.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	11th Gen Intel Tiger Lake Processors
	Sockets Supported	FCBGA1449
Memory specifications	Memory type	DDR4 SO-DIMM
	Maximum capacity	64GB
	Maximum frequency	3200 MT/s
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)
	M.2	1*M.2 Key-M 2280
Network features	Ethernet	4*2.5GbE
	Controller	4*Intel I226V
Extension interface	mPCIe	1*mPCIe
Display functions	Port	1*DP/1*HD
	Chip	Intel UHD Graphics
Backplane I/O	USB	4*USB-A 3.0
	Display	1*DP/1*HD
	COM	1*RJ45 COM RS232
	LAN	4*RJ45
	SIM	1*SIM Card slot
	Power supply	1*Jack DC 5.5/2.5mm
Onboard I/O	SATA	1*SATA Data connector/1*SATA Power socket
	SIM	1*SIM Card slots
	Fan	1*CPU_FAN

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



G30S-1449NP -4L

Product Features

The G30S-1449NP-4L is a compact fanless industrial PC designed on the 11th Gen Intel Tiger Lake platform. Housed in a compact metal chassis, it integrates 4x 2.5Gb Ethernet ports, delivers powerful computing performance, and features a completely silent fanless passive cooling design. Engineered for applications with strict requirements for size, silence, reliability, and performance, it is an ideal solution for space-constrained network access devices, industrial control terminals, and lightweight edge computing applications.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	11th Gen Intel Tiger Lake Processors		
	Sockets Supported	FCBGA1449		
Memory specifications	Memory type	DDR4 SO-DIMM		
	Maximum capacity	64GB		
	Maximum frequency	3200 MT/s		
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)		
	M.2	1*M.2 Key-M 2280		
Network features	Ethernet	4*2.5GbE		
	Controller	4*Intel I226V		
Interface	Front Panel	Ethernet	4*RJ45	
		Power	1*Jack DC_IN	
		Console	1*RJ45 RS232	
	Back Panel	Button	1*Start or Restart	
		USB	2*USB-A 3.0, 2*USB-A 2.0	
		Display	1*DP/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)		
	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)		



G48S-1449NP -4L

Product Features

The G48S-1449NP-4L is a compact fanless industrial PC designed on the 11th Gen Intel Tiger Lake platform. Housed in a compact metal chassis, it integrates 4x 2.5Gb Ethernet ports, delivers powerful computing performance, and features a completely silent fanless passive cooling design. Engineered for applications with strict requirements for size, silence, reliability, and performance, it is an ideal solution for space-constrained network access devices, industrial control terminals, and lightweight edge computing applications.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	11th Gen Intel Tiger Lake Processors		
	Sockets Supported	FCBGA1449		
Memory specifications	Memory type	DDR4 SO-DIMM		
	Maximum capacity	64GB		
	Maximum frequency	3200 MT/s		
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)		
	M.2	1*M.2 Key-M 2280		
Network features	Ethernet	4*2.5GbE		
	Controller	4*Intel I226V		
Interface	Front Panel	Ethernet	4*RJ45	
		Power	1*Jack DC_IN	
		Console	1*RJ45 RS232	
	Back Panel	Button	1*Start or Restart	
		USB	2*USB-A 3.0, 2*USB-A 2.0	
		Display	1*DP/1*HD	
		Antenna hole	2*Reserved	
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 1.25 KG (including accessories)		
Power Mode	DC	12V 4A or Higher		
Work Environment	Temperature	0~50℃		
	Humidity	5%~90% (Relative humidity, no condensation)		



G31S-1449NP -4L

Product Features

The G31S-1449NP-4L is a compact fanless industrial PC designed on the 11th Gen Intel Tiger Lake platform. Housed in a compact metal chassis, it integrates 4x 2.5Gb Ethernet ports, delivers powerful computing performance, and features a completely silent fanless passive cooling design. Engineered for applications with strict requirements for size, silence, reliability, and performance, it is an ideal solution for space-constrained network access devices, industrial control terminals, and lightweight edge computing applications.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	11th Gen Intel Tiger Lake Processors		
	Sockets Supported	FCBGA1449		
Memory specifications	Memory type	DDR4 SO-DIMM		
	Maximum capacity	64GB		
	Maximum frequency	3200 MT/s		
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)		
	M.2	1*M.2 Key-M 2280		
Network features	Ethernet	4*2.5GbE		
	Controller	4*Intel I226V		
Interface	Front Panel	Ethernet	4*RJ45	
		Power	1*Jack DC_IN	
		Console	1*RJ45 RS232	
	Back Panel	Button	1*Start or Restart	
		USB	2*USB-A 3.0, 2*USB-A 2.0	
		Display	1*DP/1*HD	
		Antenna hole	2*Reserved	
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)		



G31F-1449NP -4L

Product Features

The G31F-1449NP-4L is a high-performance compact network appliance built on the Intel Tiger Lake platform. Within its sleek metal chassis, it integrates advanced four-port 2.5GbE high-speed Ethernet connectivity with powerful processing performance. An efficient active cooling system ensures sustained and stable performance under continuous workloads. Designed for applications requiring high throughput, multiple network ports, and long-term high-load operation, it is an ideal choice for building compact, efficient, and powerful network devices.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	11th Gen Intel Tiger Lake Processors		
	Sockets Supported	FCBGA1449		
Memory specifications	Memory type	DDR4 SO-DIMM		
	Maximum capacity	64GB		
	Maximum frequency	3200 MT/s		
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)		
	M.2	1*M.2 Key-M 2280		
Network features	Ethernet	4*2.5GbE		
	Controller	4*Intel I226V		
Interface	Front Panel	Ethernet	4*RJ45	
		Power	1*Jack DC_IN	
		Console	1*RJ45 RS232	
	Back Panel	Button	1*Start or Restart	
		USB	2*USB-A 3.0, 2*USB-A 2.0	
		Display	1*DP/1*HD	
		Antenna hole	2*Reserved	
Extension interface	mPCIe	1*mPCIe		
Cooling Method	Active, Cooling Fan, 1*Smart Chassis fan			
System Specifications	Chassis Size	178*126*56 (mm)		
	Weight	Equipment Weight 1.25 KG; Package Weight 1.95 KG (including accessories)		
Power Mode	DC	12V 4A (Celeron) /12V 7A (Pentium)/12V 10A (Core) or Higher		
Work Environment	Temperature	0~50℃		
	Humidity	5%~90% (Relative humidity, no condensation)		