1449NP-12-6L

Product Features

The 1449NP-12-6L is a compact industrial motherboard designed on the 11th Gen Intel Tiger Lake processor platform. It integrates 6x 2.5GbE high-speed Ethernet ports, supports high-capacity dual-channel DDR4 memory, and offers multiple storage and expansion interfaces. By combining leading network performance, strong computing capability, and rugged industrial-grade design in a compact form factor, it is purpose-built for applications such as firewalls, software routers, edge computing nodes, and industrial networking equipment—achieving an ideal balance between performance, power efficiency, and stability.

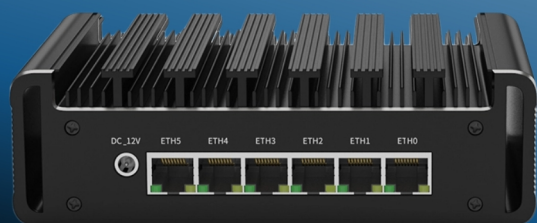## Application Scenarios

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 6Gb/s
	mSATA	1*mSATA
	M.2	1*M.2 Key-M 2280
Network features	Ethernet	6*2.5GbE
	Controller	6*Intel I226V
Extension interface	mPCIe	1*mPCIe
Display functions	Port	1*DP/1*HD
	Chip	Intel UHD Graphics
Backplane I/O	USB	2*USB-A 2.0, 2*USB-A 3.0
	Display	1*DP/1*HD
	COM	1*RJ45 COM RS232
	Ethernet	6*RJ45
	SIM	1*SIM Card solt
	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 solts	
	Fan	1*CPU_FAN/1*SYS_FAN	
	Pin	1*F_USB2.0	
Power supply mode	DC	12V	
Motherboard size	Specification	120*120 (mm)	
Work Environment	Temperature	-20~55℃	
	Humidity	5%~90% (Relative humidity, no condensation)	

G31S-1449NP -6L

Product Features

The G31S-1449NP-6L is a high-performance, ultra-silent network appliance built on the 11th Gen Intel Tiger Lake platform. It integrates 6x 2.5GbE high-speed Ethernet ports, supports high-capacity DDR4 memory, and offers multiple storage and expansion options. Designed for software routing, firewalls, edge computing, and industrial networking applications, it delivers an optimal balance of performance, stability, and silent operation—making it an ideal flagship solution for building next-generation high-speed, zero-noise network infrastructure.

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 6Gb/s	
	mSATA	1*mSATA	
	M.2	1*M.2 Key-M 2280	
Network features	Ethernet	6*2.5GbE	
	Controller	6*Intel I226V	
Interface	Front Panel	Ethernet	6*RJ45
		Power	1*Jack DC_IN
		Button	1*Start or Restart
	Back Panel	USB	2*USB-A 3.0, 2*USB-A 2.0
		Console	1*RJ45 COM
		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 7A (Pentium)/12V 10A (Core) or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	

G31F-1449NP -6L

Product Features

The G31F-1449NP-6L is a high-performance compact network appliance built on the 11th Gen Intel Tiger Lake platform. Within its compact metal chassis, it integrates 6x 2.5Gb high-speed Ethernet ports and employs an efficient active cooling system to ensure sustained and stable delivery of powerful computing and networking performance. Designed for enterprise network cores, high-end virtualization platforms, and professional applications requiring high network density, strong computing capability, and long-term operational stability, it is an ideal choice for building reliable, high-performance edge infrastructure.

Application Scenarios

Cybersecurity

IoT Edge Gateway

Industrial Control Automation

Embedded Terminal

Category	Sub	Spec	Value	
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 6Gb/s	
	mSATA		1*mSATA	
	M.2		1*M.2 Key-M 2280	
Network features	Ethernet		6*2.5GbE	
	Controller		6*Intel I226V	
Interface	Front Panel	Ethernet	6*RJ45	
		Power	1*Jack DC_IN	
	Back Panel	Button	1*Start or Restart	
		USB	2*USB-A 3.0, 2*USB-A 2.0	
		Console	1*RJ45 COM	
		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 1.15 KG; Package Weight 1.85 KG (including accessories)	
Power Mode	DC		12V 7A (Pentium)/12V 10A (Core) or Higher	
Work Environment	Temperature		0~50℃	
	Humidity		5%~90% (Relative humidity, no condensation)	