



# 1493NP-12-4L

## Product Features

The 1493NP-12-4L is a compact embedded motherboard designed based on the Intel Celeron J-series processor platform. This motherboard features 4 x 2.5GbE Intel I226V network controllers and supports DDR4 dual-channel memory, M.2 high-speed storage, and multiple expansion interfaces, providing a highly stable and low-power computing platform for firewalls, IoT gateways, lightweight virtualization, and industrial edge computing

## Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Intel Celeron Processor J Series
	Sockets Supported	FCBGA1493
Memory specifications	Memory Type	2*DDR4 SO-DIMM
	Maximum Capacity	32GB
	Maximum Frequency	3200 MT/s
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)
	M.2	1*M.2 Key-M 2280 (PCIe Gen3 x2 rate)
Network features	Ethernet	4*2.5GbE
	Controller	4*Intel I226V
Extension interface	M.2 Key-B	1*M.2 Key-B 3052
	M.2 Key-E	1*M.2 Key-E 2230 (Back of motherboard)
Display functions	Port	1*DP/1*HD
	Chip	Intel UHD Graphics
Backplane I/O	USB	1*USB-A 3.0/3*USB-A 2.0
	Display	1*DP/1*HD
	Console	1*RJ45 COM RS232
	LAN	4*RJ45
	Button	1*Start or Restart Button, 1*Clear CMOS Button
	Power supply	1*Jack DC 5.5/2.5mm
	Onboard I/O	SATA

	SIM	1*SIM Card slots
	Fan	1*CPU Fan power socket
		1*JGPIO
	Pins	1*JCOM RS232 or RS485
		1*F_Panel
Power supply mode	DC	12V
Motherboard size	Specification	120*120 (mm)
Work Environment	Temperature	-20~55℃
	Humidity	5%~90% (Relative humidity, no condensation)



# G30S-1493NP -4L

## Product Features

The G30S-1493NP-4L is a small embedded system built on the Intel Celeron J series platform. It features a fanless passive cooling design, offering exceptional energy efficiency and long-term stable operation. Equipped with 4 x 2.5GbE network ports, dual DDR4 memory slots, M.2 high-speed storage, and dual M.2 expansion slots, it is an ideal solution for building space-sensitive network devices, industrial control, and edge computing.

## Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Intel Celeron Processor J Series	
	Sockets Supported	FCBGA1493	
Memory specifications	Memory Type	2*DDR4 SO-DIMM	
	Maximum Capacity	32GB	
	Maximum Frequency	3200 MT/s	
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)	
	M.2	1*M.2 Key-M 2280	
Interface	Front Panel	Ethernet	4*RJ45
		Power	1*Jack DC_IN
	Console	1*RJ45 RS232	
	Back Panel	Button	1*Start or Restart
		USB	1*USB-A 3.0, 3*USB-A 2.0
		Display	1*DP/1*HD
	Antenna hole	2*Reserved	
Extension interface	M.2 Key-B	1*M.2 Key-B 3052	
	M.2 Key-E	1*M.2 Key-E 2230 (Back of motherboard)	
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-1493NP -4L

## Product Features

The G48S-1493NP-4L is an ultra-compact fanless embedded industrial PC based on Intel Celeron J-series processors. It features a robust metal casing and a completely fanless cooling structure, ensuring stable operation while achieving true zero-noise performance. Integrating 4x 2.5GbE high-speed network ports, dual-channel DDR4, M.2 NVMe high-speed storage, and scalability, it is an ideal solution for building network devices, industrial control, and edge computing applications in space-constrained environments.

## Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Intel Celeron Processor J Series		
	Sockets Supported	FCBGA1493		
Memory specifications	Memory Type	2*DDR4 SO-DIMM		
	Maximum Capacity	32GB		
	Maximum Frequency	3200 MT/s		
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)		
	M.2	1*M.2 Key-M 2280		
Interface	Ethernet	4*RJ45		
	Front Panel	Power	1*Jack DC_IN	
		Console	1*RJ45 RS232	
	Back Panel	Button	1*Start or Restart	
		USB	1*USB-A 3.0, 3*USB-A 2.0	
		Display	1*DP/1*HD	
	Antenna hole	2*Reserved		
Extension interface	M.2 Key-B	1*M.2 Key-B 3052		
	M.2 Key-E	1*M.2 Key-E 2230 (Back of motherboard)		
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-1493NP -4L

## Product Features

The G31S-1493NP-4L is a high-performance fanless embedded industrial PC based on Intel Celeron J-series processors. We've upgraded the chassis size and heat dissipation, providing more cooling space and better temperature control than smaller models in the same series, resulting in greater stability during extended high-load operation. With 4×2.5GbE network interfaces, dual-channel DDR4, M.2 NVMe SSD, and 4G/5G/Wi-Fi scalability, it's an ideal solution for building industrial automation, network communication, and edge computing applications.

## Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Intel Celeron Processor J Series		
	Sockets Supported	FCBGA1493		
Memory specifications	Memory Type	2*DDR4 SO-DIMM		
	Maximum Capacity	32GB		
	Maximum Frequency	3200 MT/s		
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)		
	M.2	1*M.2 Key-M 2280		
Interface	Ethernet	4*RJ45		
	Front Panel	Power	1*Jack DC_IN	
		Console	1*RJ45 RS232	
	Back Panel	Button	1*Start or Restart	
		USB	1*USB-A 3.0,	
			3*USB-A 2.0	
Display	1*DP/1*HD			
Antenna hole	2*Reserved			
Extension interface	M.2 Key-B	1*M.2 Key-B 3052		
	M.2 Key-E	1*M.2 Key-E 2230 (Back of motherboard)		
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-1493NP -4L

## Product Features

The G31F-1493NP-4L is an actively cooled embedded network appliance powered by the Intel Celeron J-series processor. It features 4x 2.5GbE Ethernet ports, dual DDR4 memory slots, M.2 high-speed storage, and supports 4G/5G/Wi-Fi expansion. Its active cooling design ensures stable, low-temperature operation under continuous full load. With its compact and reliable build, it is ideal for network security, edge computing, and IoT applications in home, enterprise, and industrial environments.

## Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Intel Celeron Processor J Series		
	Sockets Supported	FCBGA1493		
	Memory Type	2*DDR4 SO-DIMM		
Memory specifications	Maximum Capacity	32GB		
	Maximum Frequency	3200 MT/s		
	Storage specifications	SATA	1*SATA 3.0 (6Gb/s)	
Interface	Front Panel	Ethernet	4*RJ45	
		Power	1*Jack DC_IN	
	Back Panel	Console	1*RJ45 RS232	
		Button	1*Start or Restart	
		USB	1*USB-A 3.0, 3*USB-A 2.0	
	Extension interface	M.2 Key-B	1*M.2 Key-B 3052	
		M.2 Key-E	1*M.2 Key-E 2230 (Back of motherboard)	
	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 or Higher		
Work Environment	Temperature	0~50℃		
	Humidity	5%~90% (Relative humidity, no condensation)		