1264NP-12-6LT

Product Features

The BKHD-1264NP-12-6LT is an ultra-compact industrial motherboard powered by Intel N-series processors and built on the Nano-ITX form factor. It features up to 6x 2.5 Gigabit Ethernet ports, extensive I/O expansion, and support for a wide operating temperature range. Designed for industrial and commercial applications with stringent requirements for network performance, space efficiency, and environmental adaptability, it serves as an ideal hardware platform for network security appliances, IoT gateways, and edge computing deployments

Application Scenarios

Network Application

Industrial IoT Gateway

Virtualized Nodes

Embedded Terminal

Processor	Product Collection	Intel Processor N-series
	Sockets Supported	FCBGA1264
Memory specifications	Memory type	DDR5 SO-DIMM
	Maximum capacity	16GB
	Maximum frequency	4800 MT/s
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)
	M.2	2*M.2 Key-M 2280 (PCIe x1)
Network features	Ethernet	6*2.5GbE
	Controller	6*Intel I226V
Extension interface	mPCIe	1*mPCIe (USB 2.0 Signal)
Display functions	Port	1*DP/1*HD
	Chip	Intel UHD Graphics
Backplane I/O	USB	4*USB-A 2.0
	Display	1*DP/1*HD
	Console	1*RJ45 COM RS232
	LAN	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
Power supply mode	DC	12V
Motherboard size	Specification	120*120 (mm)
Work Environment	Temperature	-20~55℃
	Humidity	5%~90% (Relative humidity, no condensation)

G31S-1264NP -6L

Product Features

The G31S-1264NP-6L is a network appliance powered by an Intel N-series processor. Its fanless passive cooling design delivers a balance of low power consumption, stability, and compact size. Equipped with 6x 2.5G Ethernet ports, support for high-speed DDR5 memory, and flexible expansion options, it is ideally suited for network security, IoT edge computing, and lightweight virtualization scenarios.

Application Scenarios

Network Application

Industrial IoT Gateway

Virtualized Nodes

Lightweight Server

Processor	Product Collection	Intel Processor N-series
	Sockets Supported	FCBGA1264
Memory specifications	Memory Type	DDR5 SO-DIMM
	Maximum Capacity	16GB
	Maximum Frequency	4800 MT/s
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)
	M.2	2*M.2 Key-M 2280 (PCIe x1)
Interface	Front Panel	Ethernet	6*RJ45
		Power	1*Jack DC_IN
	Back Panel	USB	4*USB-A 2.0
		Button	1*Power button
		Display	1*DP/1*HD
		Console	1*RJ45 COM
		Antenna hole	2*Reserved
Extension interface	mPCIe	1*mPCIe
Cooling Method	Passive Cooling, Fanless (Need air flow)
System Specifications	Chassis Size	178*126*55 (mm)
	Equipment 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-1264NP -6L

Product Features

The G31F-1264NP-6L is a high-performance embedded industrial computer designed for network applications and edge computing. Despite its compact form factor, it integrates 6x 2.5 Gigabit Ethernet ports and offers dual M.2 NVMe storage slots. Equipped with an intelligent active cooling system, it ensures stable operation under sustained high loads, making it an ideal platform for users with demanding requirements for network throughput and data read/write performance.

Application Scenarios

Network Application

Industrial IoT Gateway

Virtualized Nodes

Lightweight Server

Processor	Product Collection	Intel Processor N-series
	Sockets Supported	FCBGA1264
Memory specifications	Memory Type	DDR5 SO-DIMM
	Maximum Capacity	16GB
	Maximum Frequency	4800 MT/s
Storage specifications	SATA	1*SATA 3.0 (6Gb/s)
	M.2	2*M.2 Key-M 2280 (PCIe x1)
Interface	Front Panel	Ethernet	6*RJ45
		Power	1*Jack DC_IN
	Back Panel	USB	4*USB-A 2.0
		Button	1*Power button
		Display	1*DP/1*HD
		Console	1*RJ45 COM
		Antenna hole	2*Reserved
Extension interface	mPCIe	1*mPCIe
Cooling Method	Active Cooling, 1*Intelligent TPM Fan	
System Specifications	Chassis Size	178*126*56 (mm)
	Equipment 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)