



# 1744NP-14 -4L

## Product Features

*BKHD-1744NP-14-4L is a high-performance, compact embedded motherboard built on the 12th/13th Gen Intel processor platform (FCBGA1744). It integrates 4x 2.5GbE high-speed Ethernet ports, supports dual-channel DDR5 memory, and provides PCIe 4.0-based NVMe high-speed storage along with flexible expansion interfaces. Balancing computing power, network bandwidth, and industrial-grade reliability, this platform serves as an ideal hardware core for next-generation high-end networking equipment, edge AI computing platforms, and space-constrained high-performance embedded applications.*

## Application Scenarios



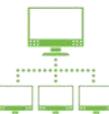
Cybersecurity



Edge Computing



Industrial Automation



Virtualization Platform

Processor	Product Collection	Intel 12th/13th Gen Processors
	Sockets Supported	FCBGA1744
	Memory Type	DDR5 SO-DIMM
Memory specifications	Maximum Capacity	2x 32GB
	Maximum Frequency	4800 MT/s
	SATA	1*SATA 3.0 (6Gb/s)
Storage specifications	M.2	1*M.2 Key-M 2280 (PCIe 4.0 x4)
	Ethernet	4*2.5GbE
Network features	Controller	4*Intel I226V
	PCIe	1*PCIe x8 (PCIe 3.0 x4 rate)
Extension interface	M.2 Key-B	1*M.2 Key-B 3052 (PCIe 3.0 x1/USB signal)
	M.2 Key-E	1*M.2 Key-E 2230 (PCIe 3.0 x1/USB/CNVi signal)
	Port	1*DP/1*HD
Display functions	Chip	Intel UHD Graphics
	USB	2*USB-A 3.0, 2*USB-A 2.0, 1*USB-C 2.0
Backplane I/O	Display	1*DP/1*HD
	Console	1*RJ45 COM RS232
	Ethernet	4*RJ45
	SIM	1*SIM Card slot
	Fan	1*SYS_FAN

	Power supply	1*Jack DC 5.5/2.5mm
	SATA	1*SATA Data connector/1*SATA Power socket
	SIM	1*SIM Card slots
Onboard I/O	Fan	1*CPU_FAN
		1*F_USB2.0
	Pin	1*J_GPIO
		1*J_TPM
Power supply mode	DC	12V
Motherboard size	Specification	130*140 (mm)
Work Environment	Temperature	-20~55°C
	Humidity	5%~90% (Relative humidity, no condensation)



# H14-1744NP-4L

## Product Features

**H14-1744NP-4L is a compact, high-performance industrial computer powered by 12th/13th Gen Intel processors. Featuring a rugged metal enclosure and fanless passive cooling, it delivers silent, reliable operation in space-constrained environments. With 4x 2.5Gb Ethernet ports, multiple USB interfaces, and flexible expansion options, it is well suited for edge computing, industrial networking, digital signage, and compact server applications.**

## Application Scenarios



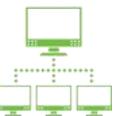
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Virtualization Platform

Processor	Product Collection	Intel 12th/13th Gen Processors
	Sockets Supported	FCBGA1744
Memory specifications	Memory type	DDR5 SO-DIMM
	Maximum capacity	2x 32GB
Storage specifications	Maximum frequency	4800 MT/s
	SATA	1*SATA 3.0 (6Gb/s)
Storage specifications	M.2	1*M.2 Key-M 2280
	Front Panel	Power
Display		1*HD/1*DP
Ethernet		4*RJ45
USB		2*USB-A 2.0
Antenna hole		2*Reserved
Expansion Port		Reserved
Interface		USB
Back Panel	Button	1*Start or Restart
	Fan	1*SYS_FAN
	SIM	1*SIM Card slot
	Console	1*RJ45 COM
Extension interface	PCIe	1*PCIe x8
	M.2 Key-B	1*M.2 Key-B 3052
	M.2 Key-E	1*M.2 Key-E 2230
Cooling Method	Passive Cooling, Fanless (Need air flow)	
System Specifications	Chassis Size	150*143*84(mm)
	Weight	Equipment Weight 1.90 KG; Package Weight 2.60 KG (including accessories)
Power Mode	DC	12V 7A or Higher
Work Environment	Temperature	0~50°C
	Humidity	5%~90% (Relative humidity, no condensation)