



BKHD-1264-SFP

Product Features

BKHD-1264-SFP is an ultra-compact, industrial-grade network motherboard built on the Intel Processor N-series platform. It uniquely integrates 3x 2.5GbE RJ45 ports and 2x 10Gb SFP+ fiber ports, combining copper and optical connectivity for flexible, high-speed networking. Supporting DDR5 memory and multiple wireless/cellular expansion options, it serves as an ideal core platform for next-generation firewalls, soft routers, fiber gateways, and edge computing systems.

Application Scenarios



Networks Communications



Cybersecurity



Industrial Networks



Edge Gateway

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	M.2	1*M.2 Key-B+M 2280 (PCIe x1/SATA 3.0)
Network features	Ethernet	3*2.5GbE RJ45
	SFP	2*10Gb SFP+
	Controller	3*Intel I226V, 2*Intel 82599
Extension interface	M.2 Key-B	1*M.2 Key-B 3052 (PCIe x1, USB2.0/USB3.0)
	M.2 Key-E	1*M.2 Key-E 2230 (CNVi or PCIe x1+USB2.0)
Display functions	Port	1*DP/1*HD
	Chip	Intel UHD Graphics
Backplane I/O	USB	5*USB-A 2.0/1*USB-A 3.0
	Display	1*DP/1*HD
	Ethernet	3*RJ45, 2*SFP+
	Power supply	1*Jack DC 5.5/2.5mm
	SIM	1*SIM Card slots
Onboard I/O	Fan	1*CPU_FAN, 1*SFP_FAN (Reserved)
	Pins	1*J_COM

1*J_GPIO		
Power supply mode	DC	12V
Motherboard size	Specification	120 mm*120 mm (Nano-ITX)
Work Environment	Temperature	Working: -10℃~60℃; Storage: -20℃~70℃;
	Humidity	5%~95% (Relative humidity, no condensation)



H31F-1264-SFP

Product Features

H31F-1264-SFP is a high-performance, compact edge networking platform powered by Intel Processor N-series CPUs. Housed in a precision-engineered metal chassis, it features a hybrid high-speed networking design on the front panel, combining 3x 2.5GbE RJ45 ports with 2x 10Gb SFP+ fiber ports. The system supports DDR5 memory and multiple wireless and cellular expansion options, delivering exceptional flexibility for modern network deployments.

Application Scenarios



Networks Communications



Cybersecurity



Industrial Networks



Edge Gateway

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	M.2	1*M.2 Key-B+M 2280	
Extension interface	M.2 Key-B	1*M.2 Key-B 3052	
	M.2 Key-E	1*M.2 Key-E 2230	
Interface	Front Panel	Ethernet	3*RJ45, 2*SFP+
		Antenna hole	2*Reserved
		USB	5*USB-A 2.0/1*USB-A 3.0
		Display	1*DP/1*HD
	Back Panel	SIM	1*SIM Card slot
		Button	Start or Restart
		Power supply	1*Jack DC 5.5/2.5mm
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 7A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	