



1170NP-12-4L

Product Features

The BKHD-1170NP-12-4L is an ultra-compact embedded industrial motherboard designed based on the Intel Bay Trail platform, featuring a compact 120×120mm size. This motherboard integrates four Gigabit Ethernet ports, supports DDR3L memory, and boasts wide operating temperature range. With its excellent energy efficiency, compact design, and reliable network performance, this product is an ideal solution for building space-constrained industrial control, network equipment, and embedded applications.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Products formerly Bay Trail
	Sockets Supported	FCBGA1170
Memory specifications	Memory Type	DDR3L SO-DIMM (1.35V Low Voltage)
	Maximum Capacity	8GB
	Maximum Frequency	1333 MHz
Storage specifications	SATA	1*SATA 2.0 (3Gb/s)
	mSATA	1*mSATA
Network features	Ethernet	4*1GbE
	Controller	4*Intel I211/I210
Extension interface	mPCIe	1*mPCIe
Display functions	Port	1*VGA/1*HD
	Chip	Intel HD Graphics
Backplane I/O	USB	2*USB-A 3.0
	Display	1*VGA/1*HD
	Ethernet	4*RJ45
Onboard I/O	Button	1*Restart Button, 1*SYS Restart Button, 1*Power Button
	Power supply	1*Jack DC 5.5/2.5mm
	SATA	1*SATA Data connector/1*SATA Power socket
Onboard I/O	SIM	1*SIM Card slots
	Fan	1*CPU fan power socket, 1*System fan power socket

	Pins	1*F_PANEL
		1*J_COM RS232
Power supply mode	DC	12V
Motherboard size	Specification	120*120 (mm)
Work Environment	Temperature	-20~55℃
	Humidity	5%~90% (Relative humidity, no condensation)



G30-1170NP-4L

Product Features

The G30-1170NP-4L is a low-power embedded network device designed for firewalls, VPN gateways, industrial IoT nodes, and lightweight edge computing applications. It features a metal casing and fanless passive cooling, ensuring high reliability and quiet operation. The device integrates four Gigabit Ethernet ports, supporting multi-WAN load balancing, link aggregation, and virtualized network management. It is an ideal solution for building network devices, industrial control systems, and edge computing applications in space-constrained environments.

Application Scenarios



Cybersecurity



IoT Edge Gateway



Industrial Control Automation



Embedded Terminal

Processor	Product Collection	Products formerly Bay Trail		
	Sockets Supported	FCBGA1170		
Memory specifications	Memory Type	DDR3L SO-DIMM (1.35V Low Voltage)		
	Maximum Capacity	8GB		
	Maximum Frequency	1333 MHz		
Storage specifications	SATA	1*SATA 2.0 (3Gb/s)		
	mSATA	1*mSATA		
Interface	Front Panel	Ethernet	4*RJ45	
		Power	1*Jack DC_IN	
	Back Panel	Button	1*Start or Restart	
		USB	2*USB-A 3.0	
		Display	1*VGA/1*HD	
		Antenna hole	2*Reserved	
Extension interface	mPCIe	1*mPCIe		
Cooling Method	Passive Cooling, Fanless (Need air flow)			
System Specifications	Chassis Size	136*126*40 (mm)		
	Equipment Weight	Equipment Weight		
		0.65 KG; Package Weight		
Power Mode	DC	1.25 KG (including accessories)		
		12V 4A or Higher		
Work Environment	Temperature	0~50°C		
	Humidity	5%~90% (Relative humidity, no condensation)		