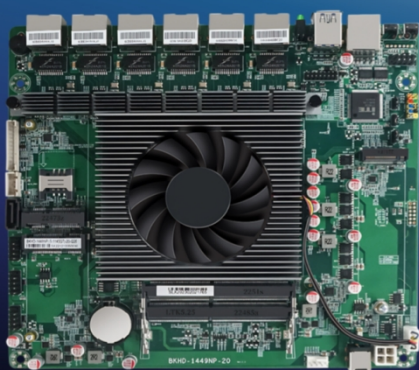




1449NP-20-6L

Product Features

The BKHD 1449NP-20-6L is a compact industrial network motherboard powered by 11th Gen Intel Tiger Lake processors. Designed for firewalls, VPN gateways, SD-WAN, and edge computing, it supports up to 64GB DDR4 memory and features 6× Intel I226V 2.5GbE LAN ports. With SATA, mSATA, M.2 SSD, Mini PCIe, SIM support, VGA/HD, RS-232 console, USB expansion, and DC 12V input, it offers reliable connectivity and flexible integration for industrial networking and custom OEM/ODM applications.

Application Scenarios



Cybersecurity



Branch Network Nodes



Industrial Automation



Lightweight Server

Processor	Product Collection	11th Gen Intel Tiger Lake platform
	Sockets Supported	FCBGA1449
Memory specifications	Memory type	DDR4 SO-DIMM
	Maximum capacity	64GB
Storage specifications	Maximum frequency	3200 MT/s
	SATA	1*SATA 6Gb/s
	mSATA	1*mSATA
Network features	M.2	1*M.2 Key-M 2280
	Ethernet	6*2.5GbE RJ45
Extension interface	Controller	6*Intel I226V
	mPCIe	1*mPCIe
Display functions	Pins	1*VGA/1*HD
	Chip	Intel UHD Graphics or Intel Iris Xe Graphics
Backplane I/O	USB	2*USB-A 3.0
	COM	1*RJ45 COM RS232
	Ethernet	6*RJ45
	Button	1*Power button, 1*Reset button
Onboard I/O	Power supply	1*Jack DC 5.5/2.5mm
	SATA	1*SATA Data connector/1*SATA Power socket
	Display	1*JVGA/1*JHDMI

	SIM	1*SIM Card slots
	Fan	1*CPU_FAN, 1*SYS_FAN
	Pins	1*F_PANEL
		1*JCOM
		3*F_USB 2.0
		1*P/S 2
Power supply mode		1*ATX 4-pin Connector or 1*Jack DC 12V
Motherboard size	Specification	180*200 (mm)
Work Environment	Temperature	-20~55℃
	Humidity	5%~90% (Relative humidity, no condensation)



OTS-1449NP -6L

Product Features

The BKHD OTS-1449NP-6L is a compact desktop network appliance powered by 11th Gen Intel FCBGA1449 processors. Designed for firewalls, VPN gateways, routers, network security, and edge computing, it supports up to 64GB DDR4 memory at 3200 MT/s. With 6× RJ45 LAN ports, dual USB 3.0, RJ45 console, mSATA, M.2 Key-M SSD, Mini PCIe expansion, reserved VGA/HD display, active cooling, and DC 12V input, it provides reliable connectivity and flexible integration for industrial and OEM/ODM network applications.

Application Scenarios



Cybersecurity



Branch Network Nodes



Industrial Automation



Lightweight Server

Processor	Product Collection	11th Generation Intel Processors	
	Sockets Supported	FCBGA1449	
	Memory type	DDR4 SO-DIMM	
Memory specifications	Maximum capacity	64GB	
	Maximum frequency	3200 MT/s	
Storage specifications	SATA	1*SATA 6Gb/s	
	mSATA	1*mSATA	
	M.2	1*M.2 Key-M 2280	
Extension interface	mPCIe	1*mPCIe	
		Ethernet	6*RJ45
Interface	Front Panel	USB	2*USB-A 3.0
		Console	1*RJ45 COM
		Display	1*VGA/1*HD (Reserve)
	Back Panel	Reserved	2*Antenna hole
		Power supply	1*Jack DC 5.5/2.5mm
Cooling Method	Active Cooling, 1*CPU Fan		
System Specifications	Chassis Size	210*200*45 (mm)	
	Weight	Equipment Weight 1.25 KG; Package	
		Weight 1.65 KG (including accessories)	
Power Mode	DC	12V 4A or Higher	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	



1U-1449NP-6L

Product Features

The BKHD 1U-1449NP-6L is a compact 1U rackmount network appliance powered by 11th Gen Intel FCBGA1449 processors. Designed for firewalls, VPN gateways, routers, SD-WAN, and industrial networking, it supports up to 64GB DDR4 memory and 6× RJ45 LAN ports. With SATA, mSATA, M.2 SSD, Mini PCIe expansion, dual USB 3.0, RJ45 console, reserved VGA/HD outputs, active cooling, and wide-range AC input, it provides reliable connectivity and flexible deployment for enterprise and OEM/ODM network applications.

Application Scenarios



Cybersecurity



Branch Network Nodes



Industrial Automation



Lightweight Server

Processor	Product Collection	11th Generation Intel Processors	
	Sockets Supported	FCBGA1449	
Memory specifications	Memory type	DDR4 SO-DIMM	
	Maximum capacity	64GB	
	Maximum frequency	3200 MT/s	
Storage specifications	SATA	1*SATA 6Gb/s	
	mSATA	1*mSATA	
	M.2	1*M.2 Key-M 2280	
Extension interface	mPCIe	1*mPCIe	
Interface	Front Panel	Ethernet	6*RJ45
		USB	2*USB-A 3.0
		Console	1*RJ45 COM
	Back Panel	Display	1*VGA/1*HD (Reserve)
		Reserved	2*Antenna hole
		Power	1*AC power socket
Cooling Method	Active Cooling, 1*CPU Fan/2*Chassis Fan		
System Specifications	Chassis Size	440*255*45 (mm)	
	Weight	Equipment Weight 3.80 KG; Package Weight 4.50 KG (including accessories)	
Power Mode	Input: 85V~264V AC 47~63 Hz, Output: DC 12V 6A		
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	



1U-DPS- 1449NP-6L

Product Features

The BKHD 1U-DPS-1449NP-6L is a 1U rackmount network appliance powered by 11th Gen Intel FCBGA1449 processors. Designed for firewalls, VPN gateways, SD-WAN, and industrial networking, it supports up to 64GB DDR4 memory and 6x RJ45 LAN ports. With SATA, mSATA, M.2 SSD, Mini PCIe, dual USB 3.0, RJ45 console, and reserved VGA/HD outputs, it offers flexible connectivity. Modular dual power supplies and active cooling make it ideal for enterprise and OEM/ODM network deployments.

Application Scenarios



Cybersecurity



Branch Network Nodes



Industrial Automation



Lightweight Server

Processor	Product Collection	11th Generation Intel Processors	
	Sockets Supported	FCBGA1449	
	Memory type	DDR4 SO-DIMM	
Memory specifications	Maximum capacity	64GB	
	Maximum frequency	3200 MT/s	
	SATA	1*SATA 6Gb/s	
Storage specifications	mSATA	1*mSATA	
	M.2	1*M.2 Key-M 2280	
	mPCIe	1*mPCIe	
Interface	Front Panel	Ethernet	6*RJ45
		USB	2*USB-A 3.0
		Console	1*RJ45 COM
	Back Panel	Display	1*VGA/1*HD (Reserve)
		Reserved	2*Antenna hole
		Power	2*AC power socket
Cooling Method	Active Cooling, 1*CPU Fan/2*Chassis Fan		
System Specifications	Chassis Size	440*410*45 (mm)	
	Weight	Equipment Weight 4.85 KG; Package Weight 6.50 KG (including accessories)	
Power Mode	Modular Dual power supply, Input: 100V~240V AC 50/60Hz, Output: 75W MAX		
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	