



C612NP-16LAN

Product Features

The C612NP-16LAN is a high-density network motherboard based on the Intel Xeon E5 v4 platform. Designed for enterprise networking, firewalls, SD-WAN, network security, and industrial communication servers, it supports dual FCLGA2011-3 CPU sockets and integrates 16× 2.5GbE LAN ports, DDR4 memory, NVMe storage, PCIe expansion, and server-grade I/O. With strong throughput and flexible expandability, it is ideal for multi-segment routing, virtualization, and custom OEM/ODM security appliances.

Application Scenarios



Enterprise Firewall Appliance



Multi-WAN Router



Network Security Appliance



Industrial Network Gateway

Processor	Product Collection	Intel Xeon Processor E5 v4 Family
	Sockets Supported	Dual FCLGA2011-3 socket (The two CPU models must be the same)
Memory specifications	Memory Type	4*DDR4 SO-DIMM (Dual-channel design)
	Maximum Capacity	4*32GB
	Maximum Frequency	2400 MT/s
Storage specifications	SATA	2*SATA 6Gb/s
	M.2	2*M.2 Key-M (NVMe) SSD
Network features	Ethernet	16*2.5GbE
	Controller	16*Intel I226V
Extension interface	PCIe	1*PCIe x16 (Gen3), 1*PCIe x8 (Gen3)
	mPCIe	1*mPCIe (USB Signal), 1*mPCIe (PCIe Signal is shared with M.2 Key-E)
	M.2	1*M.2 Key-E (PCIe Signal is shared with mPCIe)
Display functions	Pins	1*VGA
	Chip	Based on onboard ASPEED chip
Backplane I/O	USB	4*USB-A 3.0
	COM	1*RJ45 COM-RS232
	LAN	16*RJ45
	Power Supply	1*Jack DC 5.5/2.5mm
Onboard I/O	SATA	2*SATA Data connector/2*SATA Power socket
	USB	1*USB-A 2.0
	Fan	1*CPU_FAN/4*SYS_FAN
	SIM	1*SIM card slot

Pins	1*F_PANEL	
	2*F_USB2.0	
	1*J_VGA	
	2*J_COM	
	1*Debug Card Headers	
	1*LPT	
	1*TPM	
	1*Case Open Pins	
Fan	1*SYS_FAN/1*CPU_FAN	
SIM	1*SIM Card slot	
Power supply mode	DC (12V~24V) or 2x 8-pin ATX power connectors with a series design; both power supply options are supported	
Motherboard size	Specification	287*285(mm) 8L
Work Environment	Temperature	-10°C~60°C;
	Humidity	5%~90% (Relative humidity, no condensation)



1U- C612NP-16L

Product Features

The 1U-C612NP-16L is a high-density 1U rackmount network appliance powered by dual Intel Xeon E5 v4 processors. Designed for firewalls, routers, network security, traffic inspection, edge computing, and enterprise gateways, it supports up to 128GB DDR4 memory and requires two identical CPUs for proper operation. With 16× RJ45 LAN, USB 3.0, RJ45 console, SATA, dual M.2 NVMe, PCIe x16/x8, mPCIe, M.2 Key-E expansion, active cooling, and a 300W power supply, it is ideal for enterprise, data center, industrial, and OEM/ODM security deployments.

Application Scenarios



Enterprise Firewall Appliance



Multi-WAN Router



Network Security Appliance



Industrial Network Gateway

Processor	Product Collection	Intel Xeon Processor E5 v4 Family	
	Sockets Supported	Dual FCLGA2011–3 socket (The two CPU models must be the same)	
	Memory Type	4*DDR4 SO–DIMM (Dual–channel design)	
Memory specifications	Maximum Capacity	4*32GB	
	Maximum Frequency	2400 MT/s	
Storage specifications	SATA	2*SATA 6Gb/s	
	M.2	2*M.2 Key–M (NVMe) SSD	
	PCIe	1*PCIe x16, 1*PCIe x8	
Extension slots	mPCIe	2*mPCIe	
	M.2	1*M.2 Key–E	
Interface	Front Panel	USB	4*USB–A 3.0
		Ethernet	16*RJ45
		Console	1*RJ45 COM
		Reserved	2*PCIe Expand port
	Back Panel	Display	1*VGA
		Reserved	2*Antenna hole
		Power	1*AC Sockrt
	Cooling Method	Active Cooling, 1*CPU Fan/2*Chassis Fan	
	System Specifications	Chassis Size	440*390*45 (mm)
Power Mode	Work Environment	Equipment Weight	4.50 KG; Package Weight 5.50 KG (including accessories)
		Temperature	0~50℃
		Humidity	5%~90% (Relative humidity, no condensation)



2U- C612NP-16L

Product Features

The 2U-C612NP-16L is a high-density 2U rackmount network appliance powered by dual Intel Xeon E5 v4 processors. Designed for firewalls, routing, VPN gateways, network security, traffic inspection, edge computing, and enterprise gateways, it supports up to 128GB DDR4 memory and requires two identical CPUs for stable operation. With 16× RJ45 LAN, USB 3.0, RJ45 console, SATA, dual M.2 NVMe, PCIe x16/x8, mPCIe, M.2 Key-E expansion, active cooling, 300W power output, and wide AC input, it is ideal for enterprise, data center, industrial, and OEM/ODM security deployments.

Application Scenarios



Enterprise Firewall Appliance



Multi-WAN Router



Network Security Appliance



Industrial Network Gateway

Processor	Product Collection	Intel Xeon Processor E5 v4 Family	
	Sockets Supported	Dual FCLGA2011–3 socket (The two CPU models must be the same)	
Memory specifications	Memory Type	4*DDR4 SO–DIMM (Dual–channel design)	
	Maximum Capacity	4*32GB	
	Maximum Frequency	2400 MT/s	
Storage specifications	SATA	2*SATA 6Gb/s	
	M.2	2*M.2 Key–M (NVMe) SSD	
Extension slots	PCIe	1*PCIe x16, 1*PCIe x8	
	mPCIe	2*mPCIe	
	M.2	1*M.2 Key–E	
Interface	Front Panel	USB	4*USB–A 3.0
		Ethernet	16*RJ45
		Console	1*RJ45 COM
		Reserved	2*PCIe Expand port
	Back Panel	Display	1*VGA
		Reserved	2*Antenna hole
		Power	1*AC Sockrt
Cooling Method	Active Cooling, 1*CPU Fan/2*Chassis Fan		
System Specifications	Chassis Size	490*400*89 (mm)	
	Weight	Equipment Weight 6.85 KG; Package Weight 8.80 KG (including accessories)	
Power Mode	Input: 80V~264V AC 47~63Hz, Output: 300W MAX		
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	