



2011-MATX

Product Features

The BKHD-2011-MATX-MB is a server motherboard designed for data centers, virtualization clusters, and industrial computing. It supports Intel Xeon E5 v3/v4 processors, 6x DDR4 memory, 10x SATA and dual M.2 NVMe SSD storage slots, and 3x PCIe expansion slots. With a full stack of industrial control interfaces and wide operating temperature, it provides the ultimate hardware foundation for hyperconverged infrastructure, high-frequency trading, and heavy machinery control, offering unlimited scalability and rugged reliability.

Application Scenarios



Server Node



Network Firewall



Virtual Machine Cluster



Industrial Automation

Processor	Product Collection	Intel Xeon Processor E5 v4 Family
	Sockets Supported	FCLGA2011-3
	Memory Type	DDR4 DIMM
Memory specifications	Maximum Capacity	384GB (6*64GB)
	Maximum Frequency	2400 MT/s
Storage specifications	SATA	10*SATA 6Gb/s
	M.2	2*M.2 Key-M 2280 SSD
Network features	Ethernet	4*2.5GbE
	Controller	4*Intel I226V
I/O Chip		ITE IT8786E-I
Extension interface	PCIe	1*PCIe x16 (Gen3), 1*PCIe x8 Gen3(x16 slot), 1*PCIe x8 (Gen3)
		Port
Display functions	Chip	Based on onboard ASPEED AST2400 chip
		Ethernet
Backplane I/O	USB	2*USB-A 3.0, 2*USB-A 2.0
	Display	1*VGA
	Audio	2*Audio Jacks (Line-Out / MIC-In)
Onboard I/O	SATA	10*SATA Data connector
		1*F_PANEL
		6*J_COM
	Pins	1*F_USB 2.0, 1*F_USB 3.0
		1*LPT
		1*TPM
		1*LAN LED

		1*F_AUDIO
		1*Case Open
	Fan power socket	4*4-pin CPU/SYS fan, 2*3-pin SYS fan, 2*2-pin SYS fan
	Power Connector	1*ATX 24-pin, 1*ATX 8-pin
Power supply mode	ATX	24 Pin+8 Pin
Motherboard size	Specification	245*245 (mm) Micro-ATX
Work Environment	Temperature	-10°C ~60°C;
	Humidity	5%~90% (Relative humidity, no condensation)



2U-2011-4L

Product Features

The 2U-2011-4L is a high-performance 2U rack-mount server powered by Intel Xeon E5 v4 processors. It features 4x 2.5GB RJ45 ports, 6x DDR4 DIMM slots (supporting up to 384GB of RAM), 4x SATA slots, and 2x M.2 NVMe SSD slots. With its extensive expansion interfaces and powerful data processing capabilities, it provides a reliable hardware solution for enterprise applications, virtualization platforms, and industrial control systems.

Application Scenarios



Server Node



Network Firewall



Virtual Machine Cluster



Industrial Automation

Processor	Product Collection	Intel Xeon Processor E5 v3/v4 Family		
	Sockets Supported	FCLGA2011-3		
	Memory Type	DDR4 DIMM		
Memory specifications	Maximum Capacity	384GB (6*64GB)		
	Maximum Frequency	2400 MT/s		
	Storage specifications	SATA	Up to 4*SATA 6Gb/s	
M.2		2*M.2 Key-M (NVMe) SSD		
Interface	Front Panel	USB	4*USB-A 2.0	
		Button	1*Power Button	
		Display	1*VGA	
	Back Panel	Ethernet	*RJ45	
		Audio	2*Audio Jacks (Line-Out / MIC-In)	
		USB	2*USB-A 3.0, 2*USB-A 2.0	
Extension interface	PCIe	Reserve	Up to 6*DB9 COM	
		Power	1*AC Sockrt	
Cooling Method	Chassis Size	Active Cooling, 1*CPU Fan/2*Chassis Fan		
		435*405*88 (mm)		
System Specifications	Equipment Weight	Equipment Weight 6.40 KG;		
		Package Weight 8.50 KG (including accessories)		
Power Mode	Input: 200V~240V AC 50/60Hz			
	Output: 200W MAX			
Work Environment	Temperature	0~50℃		
	Humidity	5%~90% (Relative humidity, no condensation)		



2011-8-BAY-NAS

Product Features

The 2011-8-BAY-NAS is an 8-bay network-attached storage (NAS) server designed for enterprise-level data storage, multi-port network applications, and virtualization. It's ideal for building high-capacity storage systems, backup servers, or media databases. Powered by Intel Xeon E5 v4 series processors, the server has 8x hot-swappable drive bays, 2x M.2 SSD slots, and 4x 2.5 Gb RJ45 Ethernet ports. These features provide exceptional storage expansion and data processing capabilities.

Application Scenarios



Enterprise NAS



Media Server



Virtual Machine Cluster



Small data center

Processor	Product Collection	Intel Xeon Processor E5 v4 Family	
	Sockets Supported	FCLGA2011-3	
Memory specifications	Memory Type	DDR4 DIMM	
	Maximum Capacity	384GB (6*64GB)	
Storage specifications	Maximum Frequency	2400 MT/s	
	SATA	Up to 8*SATA 6Gb/s	
Storage specifications	M.2	2*M.2 Key-M (NVMe) SSD	
	Front Panel	USB	2*USB-A 3.0
Interface	Button	1*Power Button	
	Storage	8*Hot Swap HDD Bay	
Interface	Display	1*VGA	
	Audio	2*Audio Jacks (Line-Out / MIC-In)	
Back Panel	Ethernet	4*RJ45	
	USB	2*USB-A 3.0, 2*USB-A 2.0	
Back Panel	Reserve	3*PCIe slot	
	Power	1*AC Sockrt	
Extension interface	PCIe	1*PCIe x16 (Gen3), 1*PCIe x8 Gen3 (x16 slot), 1*PCIe x8 (Gen3)	
Cooling Method	Active Cooling	Fan	1*CPU Fan/3*Chassis Fan
System Specifications	Chassis Size	305*310*220 (mm)	
	Equipment Weight	Equipment Weight 7.50 KG; Package Weight 9.80 KG (including accessories)	
Power Mode	Input:	90V~264V AC 50/60Hz	
	Output:	400W MAX	
Work Environment	Temperature	0~50℃	
	Humidity	5%~90% (Relative humidity, no condensation)	