速桥®
SUQIAO

Shenzhen Suqiao Technology Co., Ltd

Company Profile

Shenzhen Suqiao Technology Co., Ltd

Shenzhen Suqiao Technology Co., Ltd. is a manufacturer of high-performance computing devices and gaming hardware, dedicated to the production and sales of computers, graphics cards, computer peripherals, and gaming peripherals. Starting from computer boards, Suqiao has gone through more than 10 years of development, from the initial OEM/ODM contract manufacturing to independent branding, achieving the construction of an integrated business system of independent research and development, manufacturing, sales, and brand operation. The products involve server machines, motherboards, gaming graphics cards, multi screen/industrial control graphics cards, mini consoles, computer expansion cards, memory, smart devices and other peripheral products, covering home, commercial, gaming, servers and other fields. Deeply loved by different user groups.

Company culture

Cultural values: With the spirit of honesty and trustworthiness, advancing by 1% every day, we create a perfect learning team and achieve extraordinary life.

Main business products:

1. Production and sales of graphics cards
2. Computer server all-in-one machine and other accessories
3. MINIPC computers and peripheral products
4. Cloud computing and artificial intelligence
5. Customized solutions
6. Pre sales, in sales, and after-sales services

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Company Certificate

Shenzhen Suqiao Technology Co., Ltd

Since its establishment in 2014, Suqiao has been full of opportunities and challenges. We will use continuous innovation as the driving force for enterprise development, quality and service as the vitality of the enterprise, constantly improve, and provide users with one-stop product solutions for software and hardware. In the future, we will bring our own brand products of Suqiao to the global market and strive tirelessly for customer satisfaction. Adhering to the principle of honest management, we meet customer requirements with excellent quality and comprehensive after-sales service. Adhere to the core values of "integrity, mutual benefit, and service", and continuously pursue the maximization of customer satisfaction.

Certificates and Corporate Qualifications

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GPU rack mounted server

GPU servers have many advantages. Firstly, it has powerful computing capabilities and can quickly handle complex computing tasks such as scientific computing and big data analysis. Secondly, the design of multi heartbeat can handle multiple threads simultaneously, effectively improving the parallel processing capability of the system. Furthermore, it has high stability and can work intermittently for a long time, ensuring the continuous operation of the business. At the same time, it has strong scalability, making it easy to flexibly upgrade configurations according to needs, such as increasing the number of cores, memory capacity, etc., to adapt to constantly changing workloads.

product information

SQ582-GPU

Xiaolong AMD EPYC 9004 processor 4U chassis, 10 card GPU server

product description

·**Powerful performance:** Equipped with AMD EPYC 9004 processor, each slot can have up to 96 ZEN4 cores, supports 12 channels, up to 4800MHz DDR5 memory, and supports a maximum power consumption of 400 watts per slot.

·**Excellent storage and expansion design**: The front panel features 8 combination Tri Mode NVMe/SATA/SAS drives and 11 PCIe 5.0 slots, supporting a bandwidth of 32GT/s, twice the speed of PCe4.0, providing lower power consumption, better channel scalability, and downward compatibility.

·**Assist in accelerating AI and HPC workloads**: up to 10 dual slot active and passive GPUs (optional 20 single slot GPUs), supporting NVIDIA NVLink ® bridge, Improve performance with NVIDIA Bluefield DPU.

·**High energy efficiency system design**:optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 4 2000W Titanium redundant power supplies to provide uninterrupted operation guarantee.

·**Comprehensive cooling solution**: designed based on CPU TDP double-layer air-cooled cooling, it can easily handle various workloads.

·**Enhanced IT infrastructure management**: iKVM remote control can be paired with ASPEEDAST2600, a software and hardware level trust root solution for management.

Specification parameters

Physical size and shape	characteristic
size	43cm*35.03cm
CPU	Support AMD EPYC™ 9004 (withAMD3D V-Cache™ Technology)and97x4series processors
CPU support types	Dual Socket SP5 (LGA 6096)
chipset	System on Chip SOC
Number of memory modules	12+12 DIMM slots (1DPC)
Memory model	288pin DDR5 RDIMM/RDIMM-3DS
Each memory	RDIMM: 96GB (2R)
Maximum capacity	RDIMM-3DS: 512GB (2S8Rx4)
Maximum video memory frequency	4800MT/S(1DPC)
working voltage	1.1V
M.2	1 M2_1-KEY(PCIE 3.0 x4 or SATA 6G/S), 支持2280/22110[CPU0] 1 M2_2-KEY(PCIE 3.0 x4 or SATA 6G/S), 支持2280/22110[CPU1]
MCIO	6 MCIO (PCIe5.0 / CXL1.1 x8) [CPU0] 1 XUSB 3.0头2 MCIO (PCIe5.0 / CXL1.1 x8 or 8 SATA6Gb/s) [CPU0] 2 MCIO (PCIe5.0 x8 or 8 SATA 6Gb/s)[CPU0]* 6 MCIO (PCIe5.0 / CXL1.1 x8) [CPU1] 2 MCIO (PCIe5.0 / CXL1.1 x8 or 8 SATA6Gb/s) [CPU1] 2 MCIO (PCIe5.0 x8) [CPU1] 1 SlimSAS (PCIe3.0 x2)** #*MCIO9, 10 support PCIe only whileinstalling 2 processors 2. No function when M2_1 supportsPCIe3.0 x4 or SATA 6Gb/s
PCH built-in storage	AMD EPYC™ 9004 (Up to 32 SATA6Gb/s):4 MCIO
Additional SATA storage	ASM1061 (2 SATA 6Gb/s):2 M.2
network interface	Intel® i350: 2 RJ45 (1GbE)
Display	ASPEED AST2600：VRAM DDR4 512MB
UID Button/LED	1 UID Button w/LED
Other Button/LED	1 PWR button,1 RST button,1 NMI button,1 HDD LED,1 SYS LED
HSBP	1
SMBus pin	4
PMbus pin	1
IPMB pin	1
CLEAR CMOS	1(contact pads)
USB 3.2(GEN1)	2 header(19-pin,4 USB 3.2Gen1)

VGA	1DB15(VGA)
USB	4 Type-A(USB 3.2 GEN 1)
RT45	2 RJ45(1GbE),1 dedicated IPMI
temperature	PU,PCH,MB,CARD Side, Temperature perception
fan	Fan Speed CPU silent fan (allows the chassis fan to automatically adjust with CPU temperature)，Fan speed control with multiple speed adjustments
voltage	Fan Multi-Speed Control P0_VDDCR_CPU0, P0_VDDCR_CPU1,P0_VDDCR_SOC, P0_VDD_18_DUAL,P0_VDD_11_S3, P0_VDDIO,P1_VDDCR_CPU0, P1_VDDCR_CPU1,P1_VDDCR_SOC, P1_VDD_18_DUAL,P1_VDD_11_S3, P1_VDDIO, +BAT,+12V, +3VSB, +5VSB
BMC Management	ASPEED AST2600
IPMI specific GLAN	1 RJ45 Delicated IPMI LAN port by Realtek RTL8211F
model	AMI UEFI BIOS; 256 Mb (32MB) SPIFlash ROM
characteristic	ASRock Rack Instant Flash, ACPI 6.4and about compliance wake up events,SMBIOS 3.5.0 and above, Plug andPlay(PnP)
Standby power LED	1（5VSB）
80 Debug Port LED	1
Fan FAIL LED	6
BMC Heartbeat LED	1
PSU connector	6 Micro-hi (8-pin, ATX 12V), 1 Micro-Fit(4-pin, ATX PSU signal) w/ ATX 24-pinadapter cable
Auxiliary panel pins	1 (18-pin): chassis intrusion, system faultLED, LAN1/LAN2 activity LED, locate,SMBus
System panel pins	1 (9-pin): power switch, reset switch,system power LED, HDD activity LED
NMI pin	1
COM pin	1（9-pin）
VGA Pin	1（15-pin）
Speaker Pin	1
Fan pin	6（6-pin）
Thermal sensing pin	1
TPM pin	1（13-pin，SPI）
SGPIO pin	4

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product information

SQ4010-M4

Intel LAG4677 5th Generation Processor
4U chassis, 10 card GPU server

product description

·**Powerful performance:** equipped with 4th and 5th generation Intel LGA4677 ® xeon ® Scalable processor, with an average performance improvement of about 21% per watt, significantly enhances AI inference and training capabilities.

·**Assist in accelerating AI and HPC workloads**: up to 10 dual slot active and passive GPUs, or optional 20 single slot passive GPUs. Support NVIDIA NVLink ® bridge, Improve performance with NVIDIA Bluefield DPU.

·**High energy efficiency system design**: Optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 5 2000w Titanium redundant power supplies for uninterrupted operation.

·**Excellent storage and expansion design**: The front panel features 12 combination Tri Mode NVMe/SATA/SAS drives and 10 PCIe 5.0 16X slots to provide higher bandwidth and system upgrades.

·**Flexible network module design**:onboard INTEL dual 10 Gigabit network, optional PCIe 5.0 slot for higher-level network expansion, achieving faster connectivity performance.

·**Enhanced IT infrastructure management**:IPMI remote control can be paired with ASPEED AST2600 management software and hardware level root of trust solution

Specification parameters

Physical size and shape	characteristic
size	43cm*35.03cm
CPU	Supports fifth and fourth generation scalable processors
CPU support types	1+1 Socket E LGA4677
CPU power consumption	350W
chipset	Intel C741
Number of memory modules	16+16 插槽（2DPC）
Memory model	288pin DDR5 RDIMM/RDIMM-3DS
Maximum capacity per memory	RDIMM：96GB RDIMM-3DS：2H-128GB/4H-256GB
Maximum video memory frequency	5600MT/S(1DPC)/4400MT/S(2DPC)-- 第五代 Intel 志强可扩展处理器 4800MT/S(1DPC)/4400MT/S(2DPC)-- 第四代 Intel 志强可扩展处理器
working voltage	1.1V
M.2	1 M-KEY(PCIE 3.0 x4 or SATA 6G/S), 支持 2280/22110[PCH] 1 M-KEY(PCIE 3.0 x4), 支持 2280/22110[PCH]
MCIO	10 MCIO 1-10(PCIE 5.0 x8)[CPU0]
	10 MCIO 11-20(PCIE 5.0 x8)[CPU1]
	1 MCIO 21(PCIE 4.0 x8)[CPU1]
	1 MCIO 22(PCIE 3.0 x8 or SATA 6G/S)[PCH]
PCH built-in storage	Intel C741(9 SATA 6GB/S, 支持 RAID 0/1/5/10):1 MCIO for 8SATA ,1M.2
network interface	2 RJ45(1GbE) Intel i350
Display	ASPEED AST2600：1 DB15(VGA),1 header
UID Button/LED	1 UID Button w/LED
Other Button/LED	1 PWR button,1 RST button,1 NMI button,1 HDD LED,1 SYS LED
VGA	1DB15(VGA)
USB	4 Type-A(USB 3.2 GEN 1)
RT45	2 RJ45(1GbE),1 dedicated IPMI
temperature	CPU, PCH, MB, CARD Side, i350 temperature sensing
fan	Fan Speed CPU silent fan (allows the chassis fan to automatically adjust with CPU temperature) Fan speed control with multiple speed adjustments
temperature	1.05V_PCH,1.8V_PCH,+BAT,PVVN_PCH,3.3V,5V,12V,3.3VSB,5VSB,12V,12VSB

BMC Management	ASPEED AST2600：IPMI 2.0 with iKVM and vMedia support
IPMI specific GLAN	1 RJ45 Delicated IPMI LAN port by Realtek RTL8211F
model	AMI UEFI BIOS:512Mb SPI Flash ROM
characteristic	Plug and Play(PnP),ACPI 4.0 and above compliance wake up events,SMBIOS 3.4 and above,ASRock Rack Instant Flash
Standby power LED	1（5VSB）
80 Debug Port LED	1
Fan FAIL LED	6
BMC Heartbeat LED	1
OS	icrosoft Windows-Server 2022(64bit)
	Linux:1.Red Hat Enterprise Linux Server 8.4(64bit)/8.5(64 bit)/9.2(64bit)
	2.SUSE Enterprise Linux Server 15 SP3(64bit)
	3.Ubantu 21.10(64bit)/22.04.2(64bit)
	Hypervisor-VMWare ESXI7.0 U3g/8.0
	NOTE:Ubantu 不支持 RAID 模式
PSU connector	1 Micro-fit(4 pin,ATX PSU signal)w/ATX 24-PIN adapter cable,1 Micro-fit(2-pin,5V),6(8-PIN,ATX 12V)
System panel pins	1（18-pin）:chassis intrusion,system fault LED,LAN1/LAN2 activity LED,locate,SMBus
NMI Pin	1
COM pin	1（9-pin）
VGA pin	1（15-pin）
Speaker pin	1
Fan pon	6（6-pin）
Thermal sensing pin	1
TPM pin	1（13-pin，SPI）
VROC pin	1
SGPIO pin	1
HSBP	2
SMBus pin	3
PMbus pin	1
IPMB	1
CLEAR CMOS	1(contact pads)
USB 3.2(GEN1)	2 header(19-pin,4 USB 3.2Gen1)

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product information

SQ4UC741

Intel LGA4677 5th Generation Processor
4U Dual Width 4-card GPU Server

product description

·**Powerful performance:** equipped with 4th and 5th generation Intel LGA4677 ® xeon ® Scalable processor, with an average performance improvement of about 21% per watt, significantly enhances AI inference and training capabilities.

·**Assist in accelerating AI and HPC workloads**: up to 4 dual slot active GPUs, supporting NVIDIA NVLink ® bridge, Improve performance with NVIDIA Bluefield DPU.

·**High energy efficiency system design**: Optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 2 2000w Titanium redundant power supplies for uninterrupted operation.

·**Excellent storage and expansion design**:The front panel features 12 combination Tri Mode NVMe/SATA/SAS drives and 6 PCIe 5.0 16X slots to provide higher bandwidth and system upgrades.

·**Flexible network module design**:onboard INTEL dual 10 Gigabit network, optional PCIe 5.0 slot for higher-level network expansion, achieving faster connectivity performance.

·**Enhanced IT infrastructure management**: IPMI remote control can be paired with ASPEED AST2600 management software and hardware level root of trust solution

Specification parameters

Physical size and shape	EEB
size	31.496cm*35.56cm
CPU	Supports fifth and fourth generation scalable processors
CPU support types	1+1 Socket E LGA4677
CPU power consumption	350W
chipset	Intel C741
Number of memory modules	8+8 slots (1DPC)
Memory model	288pin DDR5 RDIMM/RDIMM-3DS
Maximum capacity per memory	RDIMM：96GB RDIMM-3DS：2H-128GB/4H-256GB
Maximum video memory frequency	5600MT/S (1DPC)/4400MT/S (2DPC) - Fifth Generation Intel Zhiqiang Scalable Processor 4800MT/S (1DPC)/4400MT/S (2DPC) - Fourth Generation Intel Zhiqiang Scalable Processor
working voltage	1.1V
PCIE x16	SLOT6:PCIE 5.0/CXL1.1 X16[CPU0] SLOT5:PCIE 5.0/CXL1.1 X16[CPU1] SLOT4:PCIE 5.0/CXL1.1 X16[CPU0] SLOT3:PCIE 5.0/CXL1.1 X16[CPU1] SLOT2:PCIE 5.0/CXL1.1 X16[CPU1] SLOT0:PCIE 5.0/CXL1.1 X16[CPU1]
PCIE x8	SLOT1:PCIE 5.0 X8[CPU0]
SATA storage	Intel C741(UP TO 13 SATA 6GB/S, 支持 RAID 0/1/5/10):3 OCulink for 12 SATA,1SATA 7-PIN
other	1 MCIO（PCIE 5.0 X8）[CPU0]
OCulink for U.2	3 OCulink (PCIE 3.0 x4 or 4SATA 6GB/S)[PCH]
M.2	1 M-KEY(PCIE 5.0 x4), 支持 2280/22110 form factor [CPU0]
network interface	2 RJ45(10GbE) Intel X710-AT2
BMC Management	ASPEED AST2600：IPMI 2.0 with iKVM and vMedia support
IPMI specific GLAN	1 RJ45 Delicated IPMI LAN port by Realtek RTL8211F
Display	ASPEED AST2600：1 DB15(VGA),1 header
UID Button/LED	1 UID Button w/LED
VGA	1DB15(VGA)
USB2.0	2 Type-A(USB2.0)
RT45	2 RJ45(10GbE),1 dedicated IPMI
power interface	1（24-PIN ATX main power) ,2(8-PIN,ATX 12V)
Auxiliary panel pins	1（18-pin）:chassis intrusion,system fault LED,LAN1/ LAN2 activity LED,locate,SMBus
System panel pins	1（9-pin）:power switch,reset switch,system power LED,HDD activity LED
NMI pin	1
VGA pin	1（15-pin）
Fan pin interface	8（6-pin）
TPM pin	1（13-pin，SPI）
VROC KEY pin	1
SGPIO 针脚	2
CPU HSBP	2
BMC-SMBus pin	1
IPMB	1
CLEAR CMOS	1(contact pads)
USB 3.2(GEN1)	2 header(19-pin,4 USB 3.2Gen1)
Other power connectors	2（8-pin,add-on card power& fan）
Standby power LED	1（5VSB）
80 Debug Port LED	1
Fan FAIL LED	8
BMC Heartbeat LED	1
model	AMI UEFI BIOS:512Mb SPI Flash ROM
characteristic	Plug and Play(PnP),ACPI 4.0 and above compliance wake up events,SMBIOS 3.4 and above,ASRock Rack Instant Flash
characteristic	CPU, PCH, MB, CARD Side, i350 temperature sensing
Fan	Fan Speed CPU silent fan (allows the chassis fan to automatically adjust with CPU temperature) Fan speed control with multiple speed adjustments
voltage	PSU +12V & +5VSB & +3.3V, +3VSB,PVNN_PCH,P1V05_PCH_ STBY,P1V8_PCH_STBY, +BAT, PVCCIN_CPU0,PVCCIN_CPU1, PVCCINFAON_CPU0, PVCCINFAON_CPU1, PVCCFA_EHV_FIVRA_CPU0, PVCCFA_EHV_FIVRA_CPU1, PVCCD_HV_CPU0, PVCCD HV_CPU1
temperature	Operation temperature: 10° C-35°C / Non operation temperature:-40° C~70° C
Humidity	Non operation humidity:20%-90%(Non condensing)

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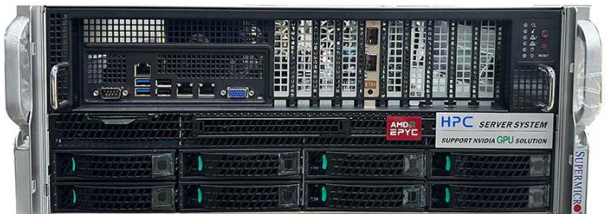
product information

SQ382-GPU

Xiaolong AMD EPYC 7001/7002 processor 4U chassis 8-card GPU server



product description

·**Powerful performance:** Equipped with dual AMD EPYC 7001/7002 processors.
·**Storage**: There are a total of 8 combination Tri Mode NVMe/SATA drives on the front chassis panel.
·**PCIE slot expansion**: 2 PCI-E 3.0 x16 slots, 3 PCI-E 3.0 x8 slots, of which 2 PCIE 3.0 X16 slots are separated into 8 PCIE 4.0 X16 slots through SWITCH to provide higher bandwidth and system upgrades.
·**Memory**: 4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMS.
·**SATA interface**:10 x SATA III interface, 1 x M.2 interface, 2 x SATADOM interface.
·**High energy efficiency system design**:Optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 4 2000w Titanium redundant power supplies for uninterrupted operation.
·**Flexible network module design**:The motherboard is equipped with 2 Gigabit network controllers, and the motherboard has an independent IPMI Gigabit management network port, which can achieve remote management and control, as well as KVM function.
·**Enhanced IT infrastructure management**:iKVM remote control can be paired with ASPEEDAST2600, a software and hardware level trust root solution for management.

Specification parameters

integrated chip	Sound card and network card
Main chipset	AMD
Chip manufacturers	AMD
Audio chip	8-channel audio chip
Graphics chip	Aspeed 2500
networking chip	Onboard dual Intel 350-AM21 Gigabit Ethernet card, Realtek RTL8211E Gigabit Ethernet card
Applicable platform	16+16 slots (2DPC)
Memory model	AMD Flat Fusion
CPU type	EPYC7000 Series
CPU socket	Socket SP3
Support CPU quantity	2
M.2	1 M-KEY(PCIE 3.0 x4 or SATA 6G/S), 支持 2280/22110[PCH]
	1 M-KEY(PCIE 3.0 x4), 支持 2280/22110[PCH]
memory type	DDR4
Memory Description	16×DDR4 DIMM
	Supports up to 2TBECC memory and supports eight channels of 2666MHz memory
	DIMMR inches: 8GB, 16GB, 32GB, 64GB, 128GB
	Memory voltage: 1.2V
Display Slot	2×PCI-E3.0x16
	3×PCI-E3.0x8
SATA interface	10 x SATA III interface, 1 x M.2 interface, 2 x SATADOM interface

USB interface	2 x USB 3.0 interfaces 4 x USB 3.0 interfaces
parallel ports	1 x COM port
External port	3 x RJ45 network interface
	1×TPM
	1 x VGA interface
Motherboard type	EATX board type
External dimensions	30.5×33.1cm
BIOS performance	AMI 128Mb SPI Flash EEPROM
Random attachments	Quick Reference Guide, SATA Cable, I/O Block

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product information

SQ392-S10

Intel LGA4189 Third Generation Processor
4U chassis, 8-card GPU server

product description

·**Powerful Performance:** Equipped with 3rd Generation LGA4189 Intel ® xeon ® Scalable processor. CPUTDP supports up to 270WTDP and 3UPI up to 11.2GT/s
·**Storage**: There are a total of 8 combination Tri Mode NVMe/SATA/SAS drives on the front chassis panel.
·**PCIE slot expansion**: 4 PCI-E 4.0 x16 slots, 2 PCI-E 4.0 x8 slots, of which 2 PCIE4.0 X16 slots are separated into 8 PCIE4.0 X16 slots through SWITCH to provide higher bandwidth and system upgrades.
·**Memory**:4TB Registered ECC DDR4 3200MHz SDRAM in 18 DIMMS.
·**M. 2 interfaces**:PCIE 4.0 X4 bandwidth.
·**M. 2. Dimensions**: 228022110 M-KEY
·**High energy efficiency system design**:Optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 4 2000w Titanium redundant power supplies for uninterrupted operation.
·**Flexible network module design**: The motherboard is equipped with 2 Gigabit network controllers, and the motherboard has an independent IPMI Gigabit management network port, which can achieve remote management and control, as well as KVM function.
·**Enhanced IT infrastructure management**: iKVM remote control can be paired with ASPEEDAST2600, a software and hardware level trust root solution for managementfunction.

Specification parameters

integrated chip	Sound card/network card
Main chipset	Intel C621A
Chip manufacturers	Intel
Chipset Description	Using Intel C621 chipset
networking chip	Onboard dual Intel 1350 Gigabit Ethernet cards
Applicable platform	Intel Pinghe
CPU type	xeon
CPU Description	CPUTDP supports up to 270WTDP and 3UPI up to 11.2GT/s
CPU socket	LGA4189
Support CPU quantity	2
memory type	DDR4
Memory Description	18 D1MM slots
	Up to 4TB Intel Opotan Persistent Memory 200 Series, DDR43200MHz
	Up to 4TB3DS ECCLRDIMM, DDR4 3200MHz
	Up to 4TB3DSECCRDIMM, DDR43200MHz
PCI slot	M. 2 interfaces: PCIE 4.0 X4 bandwidth
	4PCI-E4.0x16
	2PC1-E4.0x8
SATA interface	14 x SATA III interface
USB interface	7xUSB3.2Gen1 interface (2 through connectors, 4 rear connectors, 1 A-type)
	2xUSB3.2Gen2 interface (2 through connectors)
Motherboard type	EATX board type
External dimensions	22.80×22.11cm
BIOS performance	AMI UEFI

Other performance	Voltage: VBAT, system temperature, PCH temperature, monitoring CPU voltage, memory temperature, CPU temperature, CPU,+5V standby,+5V,+3.3V,+12V, VRM temperature, memory voltage, 8 fan status
	Leading: Power indicator light
	BMC/IPMI heartbeat LED
	CPU/System Overheating LED
	Temperature: Monitor CPU and chassis environment CPU hot trip support
	Fan: 8 4-pin fan connectors (up to 8 fans) PWM fan speed control
	Other features: WOL, UID, RoHS, Node Manager support, CPU hot trip support for processor protection, chassis intrusion connector, chassis intrusion detection, ATX power connector, ACPI power management, RoT, NCSI connector
Other features	Working temperature range: 10C-35 °C (50F-95F)
	Non working temperature range: -40 °C -70 °C (-40F-158F)
	Working relative humidity range: 8% -90% (non condensing)
	Non working relative humidity range: 5% -95% (non condensing)

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product information

SQ482-GPU

Xiaolong AMD EPYC 7002/7003 processor 4U chassis 8-card GPU server

product description

·**Powerful performance:** Equipped with dual AMD EPYC 7002/7003 processors.
·**Storage**: There are a total of 8 combination Tri Mode NVMe/SATA/SAS drives on the front chassis panel.
·**PCIE slot expansion**: 3 PCI-E 4.0 x16 slots, 3 PCI-E 4.0 x8 slots, of which 2 PCIE4.0 X16 slots are separated into 8 PCIE4.0 X16 slots through SWITCH to provide higher bandwidth and system upgrades.
·**Memory**:4TB Registered ECC DDR4 3200MHz SDRAM in 16 DIMMS.
·**M. 2 interfaces**:PCIE 4.0 X4 bandwidth
·**M. 2. Dimensions**:228022110 M-KEY
·**High energy efficiency system design**: Optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 4 2000w Titanium redundant power supplies for uninterrupted operation.
·**Flexible network module design**:The motherboard is equipped with 2 Gigabit network controllers, and the motherboard has an independent IPMI Gigabit management network port, which can achieve remote management and control, as well as KVM function.
·**Enhanced IT infrastructure management**:iKVM remote control can be paired with ASPEEDAST2600, a software and hardware level trust root solution for management.

Specification parameters

integrated chip	EATX
aspect	12 inches x 13.05 inches (305 cm x 33.1 cm)
Central Processing Unit	Dual AMD EPYCM7003/7002 series processors, socket SP3
core	Up to 64 cores
chipset	On-chip system
Memory capacity	16 DIMM slots
	Supports up to 4TB RegistereECCDDR43, 200MHz SDRAM
	For dual CPUs: it is recommended to evenly fill memory in adjacent memory modules
memory type	DDR43200MHzRegisteredECC, 288 pin gold-plated DIMM
DIMM R-inch	Socket SP3
Support CPU quantity	8GB、16GB、32GB、64GB、128GB、256GB
Memory Voltage	1.2V
Error Detection	Correct unit errors Detecting dual bit errors (using ECC memory)
SATA	SATA3(6Gbps)
IPMI	Support intelligent platform management interface v.2.0
	IPMI2.0 has virtual media on LAN and KVM over LAN support ASPEEDAST2600 BMC
network controller	Implementing dual LAN through BroadcomBCM5720L Gigabit Ethernet controller
VGA	ASPEEDAST2600 BMC
SATA	10 SATA3 (6Gbps) ports
LAN	2 1GbELAN ports
	1 RJ45 dedicated IPMILAN port

USB	2 USB 2.0 ports (back) 4 USB 3.0 ports (2 on the back, 2 connectors)
VGA	1 VGA port
other	1 COM port (back)
	2 SATADOM power connectors
	4 PCI-E4.0NVMe x4 internal ports TPM2.0 header
PCI-Express	3 PCI-E4.0x16 slots
	3 PCI-E4.0x8 slots
M.2	Bandwidth: PCIE 4.0 X4
	Dimensions: 2280, 22110 M-KEY

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product information

SQC612-4GPU

Intel LGA2011 E5 processor
4U chassis, 4-card GPU server

product description

·**Standard rack height of 4U:** supporting 2 Intel chips® Xeon® E5-2600 V3/V4 series processors. Suitable for large-scale network application environments with high requirements for space and performance, such as virtualized desktops, large-scale graphics rendering, cloud platforms, etc

·**8 DDR4 DIMM SLOTs**: supporting RDIMM/LRDIMM/3DS LRDIMMs, with a maximum capacity of 1TB.

·**Supports 8 3.5-inch or 2.5-inch SATA/SAS hard drives**: Supports various disk management adapter cards such as Raid cards and HBA cards.

·**It has rich I/O business interfaces and comes standard with 2 Gigabit Ethernet ports**:Multiple gigabit network ports and multiple 10G network ports can be extended through PCIE.

·**IPMI2.0 remote management**:Easy to operate software upgrade, remote BMC software upgrade and powerful system monitoring capability for OS installation, complete LOG log information, easy for users to query and manage.

·**The power module adopts platinum level 1+1 redundant power supply**: certified with 80Plus, with a power conversion rate of up to 96%, greatly reducing system power consumption and thus lowering operation and maintenance costs.

Specification parameters

system model	SYS-4GPU SERVER
Hard disk	8 pieces of 3.5 "/2.5" SATA hard drives
network card	2 个 Intel® I210-AT 1GbE LAN
CPU	Single node supports 2 Intel chips ® E5 2600 V3/V4 Processor
Memory	Single node supports up to 1TB, DDR4-2400MHz
GPU	NVIDIA Series or AMD Series
power supply	Adopting 1600W1+1 redundant white gold efficiency power supply
System size	685mm * 482.6mm * 177.8mm (depth * width * height)
System weight	Net weight 19 kilograms, gross weight 22 kilograms
Motherboard model	LY-X10D2C
CPU support types	Intel® Xeon® processor E5-2600 V3/V4 series Socket R3 (LGA2011) up to 145W CPU
chipset	Intel ® PCH C612 chip
Number of memory slots	Supports 8 DDR4 DIMM slots
Memory support types	The total capacity supports 256GB ECC-RDIMM, 512GB ECC-LRDIMM, and 1TB 3DS LRDIMM Speed support DDR4-1600/1866/2133/2400MHz Single capacity support RDIMM:8GB,16GB,32GB LRDIMM:32GB,64GB 3DS LRDIMM:128GB
System hard disk interface	Intel® RSTe Support software RAID 0, 1,10 & 5 8*SATA3.0 1* NVME M.2 M-Key（PCIE2.0X4） 1*mSATA
Graphics card	Aspeed AST2400
IPMI	Support for Intelligent Platform Management Interface v2.0 IPMI 2.0 with virtual media over LAN and KVM over LAN support ASPEED AST2400 BMC
network	2 Intel ® I210-AT 1Gigabit Ethernet Controller 1 independent management network port Realtek RTL8211E PHY

PCI-E	Supports 6 PCI-E extensions, including 4 PCIE 3.0 × 16 slots (55mm spacing, wider than double width), 1 One PCIE 3.0 × 8 (single width in X16 slot), one PCIE 3.0 × 8 (in × 8 slot);
USB	2 USB 3.0 interfaces, 2 USB 2.0 interfaces
Number of power sources	Support 2
Power characteristics	Adopting 1600W 1+1 redundant white gold efficiency power supply
supply voltage	Input voltage 100-245V 47Hz~63Hz; Output voltage:+12V_SB,+12V
Number of fans	The system supports 3 12038 temperature controlled fans
Server	Windows Server 2008 R2(64bit) Windows SBS 2011 (64bit) Windows Server 2012/2012 R2 (64bit) Working relative humidity range: 8% -90% (non condensing) Redhat Enterprise Linux Server (32bit/64bit) Suse Enterprise Linux Server (32bit/64bit) Ubuntu Server (32bit/64bit)
Virtualization	VMWare ESXi (Target) Microsoft Hyper-V (Target) Citrix Xen Server (Target) Linux Kernel Virtual Machine (Target)
System operating temperature	Operating temperature: 10 °C ~35 °C ; Non operating temperature: -40 °C ~70 °C
System storage temperature and humidity	Operating humidity: 35%~80%; Non operating humidity: 20%~90%
authentication	CE ROHS

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product information

SQC612-8GPU

Intel LGA2011 processor
4U chassis, 8-card GPU server

product description

·**High performance:** Standard rack height of 4U, supporting 2 Intel chips ® Xeon ® E5-2600 V3/V4 series processors. Suitable for large-scale network application environments such as virtualized desktops, large-scale graphics rendering, AI cloud platforms, etc. that require high space and performance.

·**Massive memory**: 24 DDR4 SLOTs, supporting RDIMM/LRDIMM/3DS LRDIMM, with a maximum capacity of 3TB.

·**Hard drive configuration**: Supports 8 3.5-inch or 2.5-inch SATA/SAS hard drives. Supports various disk management adapter cards such as Raid cards and HBA cards.

·**Rich I/O**:It has a wide range of I/O business interfaces and comes standard with 2 Gigabit Ethernet ports; Multiple gigabit network ports and multiple 10G network ports can be extended through PCIE.

·**Intelligent management**:IPMI2.0 remote management; Easy to operate software upgrade, remote BMC software upgrade and powerful system monitoring capability for OS installation, complete LOG log information, easy for users to query and manage.

·**Energy saving and environmental protection**:The power module adopts platinum level 2+2 redundant power supply, 80Plus certification, with a power conversion rate of up to 96%, greatly reducing system power consumption and thus lowering operation and maintenance costs.

Specification parameters

system model	SYS-8GPU SERVER
Hard disk	8 pieces of 3.5 "/2.5" SATA/SAS hard drives
network card	2 个 Intel® I210-AT2 1GbE LAN
CPU	Single node supports 2 Intel chips ® E5 2600 V3/V4 Processor
Memory	Single node supports up to 3TB, DDR4-2400MHz
GPU	Nvidia Series & AMD Series
power supply	Adopting a 1600W 2+2 redundant white gold efficiency power supply
System size	730mm * 482.6mm * 177.8mm (depth * width * height)
System weight	Net weight 19 kilograms, gross weight 22 kilograms
Motherboard model	LY-X10D2B
CPU support types	Intel® Xeon® processor E5-2600 V3/V4 series Socket R3 (LGA2011) up to 145W CPU
chipset	Intel ® PCH C612 chip
Number of memory slots	Supports 24 DDR4 DIMM slots
Memory support types	The total capacity supports 768GB ECC-RDIMM, 1.5TB ECC-LRDIMM, and 3TB 3DS LRDIMM Speed support DDR4-1600/1866/2133/2400MHz Single capacity support RDIMM:8GB,16GB,32GB LRDIMM:32GB,64GB 3DS LRDIMM:128GB
System hard disk interface	Intel® RSTe Support software RAID 0, 1,10 & 5
Graphics card	Aspeed AST2400
IPMI	Support for Intelligent Platform Management Interface v2.0 IPMI 2.0 with virtual media over LAN and KVM over LAN support ASPEED AST2400 BMC
network	2 Intel ® I210-AT 1Gigabit Ethernet Controller 1 independent management network port Realtek RTL8211E PHY

PCI-E	Supports 10 PCI-E extensions, including 8 PCIE 3.0 × 16 slots (double width in X16 slots) and 2 PCIE 3.0 × 16 slots 8slots(single-width in X16 slot)
USB	2 USB 3.0 interfaces, 2 USB 2.0 interfaces
Number of power sources	Support 4
Power characteristics	Adopting 1600W 2+2 redundant white gold efficiency power supply
supply voltage	Input voltage 100-245V 47Hz~63Hz; Output voltage:+12V_SB,+12V
Number of fans	The system supports 6 12038 temperature controlled fans
Fan Speed	Maximum XX00+/-10% RPM
Server	Windows Server 2008 R2(64bit) Windows SBS 2011 (64bit)Y Windows Server 2012/2012 R2 (64bit) Redhat Enterprise Linux Server (32bit/64bit) Suse Enterprise Linux Server (32bit/64bit) Ubuntu Server (32bit/64bit)
Virtualization	VMWare ESXi (Target) Microsoft Hyper-V (Target) Citrix Xen Server (Target) Linux Kernel Virtual Machine (Target)
System operating temperature	Operating temperature: 10 °C ~35 °C ; Non operating temperature: -40 °C ~70 °C
System storage temperature and humidity	Operating humidity: 35%~80%; Non operating humidity: 20%~90%
authentication	CE ROHS

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product information

SQ-X11D2A

Intel LGA3647 processor
4U Dual Width 4-card GPU Server

product description

·**Powerful performance:** Supports 1/2 first/second-generation LGA3647 Intel @ Xeon @ Scalable Series processors
·**Memory**:Adopting 16 DDR4 DIMM Dual Channels, supporting up to 2TB ECC RDIMM/LRDIMM
·**Excellent storage and expansion design**: The motherboard supports 6 PCIe3.0 x16 and 1 PCIe3.0 x4 (in X8 slot expansion slots, the motherboard PCH can support up to 10 SATA3.0 interfaces (2 * 8087 Connector+2 * SATA 3.0), supports RAID 0, 1, 5, 10;
·**Flexible network module design**: The motherboard is equipped with 2 Gigabit network controllers, and the motherboard has an independent IPMI Gigabit management network port, which can achieve remote management and control, as well as KVM function.
·**High energy efficiency system design**:Optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 2 2000w Titanium redundant power supplies for uninterrupted operation.

Specification parameters

CPU	Supports two Intel Xeon Scalable First and Second Generation CPULGA3647
	A single CPU can support a maximum of 205W
	A single CPU can support a maximum of 28 cores
South Bridge	Intel BC621
BMC	ASPEED AST2500
Audio chip	1210-AT*2
Memory	Supports 16 memory sticks
	Up to 2TB IntelB Optane' Persistent Memory 200 Series,DDR4-2666MHz
	Up to 4TB 3DSECCLRDIMM,DDR4-2933MHZ;Up to 4TB 3DS ECC RDIMM,
	Up to 2TB IntelB Optanew DC Persistent Memory in memory mode
	(Cascade Lake only).
Supported memory frequencies	2933/2666/2400/2133 MT/ sECCDDR4LRDIMM(3DS),RDIMM(3DS)
Number of memory slots	Supports 8 DDR4 DIMM slots
Memory support types	The total capacity supports 256GB ECC-RDIMM, 512GB ECC-LRDIMM, and 1TB 3DS LRDIMM
	Speed support DDR4-1600/1866/2133/2400MHz Single capacity support
	RDIMM:8GB,16GB,32GB
	LRDIMM:32GB,64GB
	3DS LRDIMM:128GB
System hard disk interface	Intel® RSTe Support software RAID 0, 1,10 & 5 8*SATA3.0
expansion slot	6 个 PCIe3.0x16,
	1 个 PCIe3.0x4(inx8slot)
	1 个 M.2Interface:PCIe3.0x4FormFactor:22110,2280Key:M-Key
	1 COM pin header (2.54mm spacing, 9 pins)
	2 8087 interfaces support 8 SATA3.0
	2 个 SATA3.0 接口
	1 USB 3.0 pin, supports two USB 3.0 ports
	1 USB 2.0 pin, supports two USB 2.0 ports
	1 个 HD AUDIO Header
Rear window 10	1 个 VGADB15
	Two 1000M/100M/10Mbps adaptive network ports
	2 USB 3.0+remote management network ports
	1 COM DB9 interface
temperature	Operating:0 to 60C Storage:-20 to 75C
temperature	5 to 95% RH(non-condensing)
Motherboard size	Motherboard size

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product information

SQX99-GPU

Intel LGA2011 processor
4U chassis, 6-card GPU server

product description

·**Based on Intel X86 architecture:** using Intel ® Grantley platform, paired with Intel ® PCH C612/X99 chipset, supporting Intel ® Xeon ® E5-2600 V3/V4 series CPU, supports a maximum of 145W, and has a maximum memory capacity of 256GB.

·**Support BMC remote management function**: 2convenient for IDC operation and maintenance, 6 PCIE slots with a spacing of 63mm, can accommodate various 3-fan game console graphics cards.

·**This product is suitable for ALEO mining and AI application fields.**

Specification parameters

Motherboard model	SQX99-GPU
CPU support types	Intel® Xeon® processor E5-2600 V3/V4 series Socket R3 (LGA2011) up to 145W CPU
chipset	Intel ® PCH WellsBurg C612 chip
Number of memory slots	Supports 8 DDR4 DIMM slots
Memory support types	Maximum support for 256G DDR4-2133/2400ECC-RDIMM, 512G ECC-LRDIMM, Capacity supports 8GB, 16GB, 32GB, 64GB
Hard disk interface	Intel® RSTe Support software RAID 0, 1,10 & 54*SATA3.0 1* NVME M.2 M-Key 1* mSATA
Graphics card	Aspeed AST2400 (optional)
network card	Support 2 1000M/100M/10M adaptive network interfaces 1 One built-in vertical RJ45 interface (optional) for motherboard, suitable for use when blocking IO with a 3-width graphics card One is a rear IO RJ45 interface for the motherboard; Support a BMC remote management network port (with built-in vertical RJ45 interface)
IPMI	Support for Intelligent Platform Management Interface v2.0 IPMI 2.0 with virtual media over LAN and KVM over LAN support ASPEED AST2400 BMC
PCI-E	Supports 6 PCI-E extensions 4 PCIE3.0 × 16 with a spacing of 63mm 2 PCIE3.0 × 8 with a spacing of 63mm (X8 signal, X16 mount)
USB	2 USB 3.0 interfaces (with built-in pins) 2 USB 3.0 ports (rear IO port) 4 USB 2.0 interfaces (with built-in pins) 2 USB 2.0 ports (rear IO port)

Display interface	Built in VGA display pin
power interface	2 8-pin power interfaces (can accommodate 6-pin power cables for graphics cards) 12 6-pin power interfaces (not fully plugged in, just plug in two)
Number of fans	Supports 8 4PIN temperature control system fans that can be set to fan speed (100% AUTO) by pressing the 5S UID button frequently Supports 2 4PIN temperature controlled CPU fans
Motherboard size	540mm*330mm
Server	Windows Server 2008 R2(64bit) Windows SBS 2011 (64bit) Windows Server 2012/2012 R2 (64bit) Redhat Enterprise Linux Server (32bit/64bit) Suse Enterprise Linux Server (32bit/64bit) Ubuntu Server (32bit/64bit)
Virtualization	VMWare ESXi (Target) Microsoft Hyper-V (Target) Citrix Xen Server (Target) Linux Kernel Virtual Machine (Target)

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product information

SQ596-GPU-G3

product description

·Support CRPS1600W/2000W/2700W 3+1 redundant power supply
·D850*W438.4*264mm;
·Professional system double-layer packaging (inner box blank+outer box customizable);
·3 pieces of 2 * 2.5-inch SATA/SAS/NVME;
·The motherboard supports 6 * 2.5-inch hot swappable hard drives;
·The front supports 5 * 4 wide fan cards and is compatible with 10 dual wide cards
The rear supports 5 * 4 wide fan cards and is compatible with 10 dual wide cards;
·Supporting rack guide rail; Tool free quick disassembly ball fully pull-out guide rail;

Specification parameters

Display VGA	1DB15(VGA)
USB interface	2 USB（Type-A）
BMC LAN	RJ45
COM	1 Type-C to COM
NIC network card	2 ocp3.0
Specification and size	D850*W438.4*264mm
Adaptive power supply	Supports CRPS1600W/2000W/2700W3+1 redundant power supply
Package size	Professional system double-layer packaging (inner box blank+outer box customizable)
Storage disk slot	Support 6 * 2.5-inch hot swappable hard drives
Backboard	3 2 * 2.5-inch SATASASNVME backboards
label	Reserved LOGO position and product information label position
PCIE extension	The front supports 5 * 4 wide fan cards and is compatible with 10 dual wide cards
	Rear support for 5 * 4 wide fan cards, compatible with 10 dual wide cards
Adaptive rail (optional)	1. Italian supported shelving guide rail;
	2. Tool free quick release ball fully pull-out guide rail

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product information

SQHB2-GPU-4U

Intel LGA4189 3rd Generation Processor 4U Chassis 10 Card GPU Server

product description

·**Powerful performance:** Equipped with dual AMD SP3 EPYC 7002/7003 processors.
·**Storage**:There are a total of 12 NVMe/SATA drives on the front chassis panel.
·**PCIe slot expansion**:Divide into 10 16X PCIe 4.0 slots through PCIe switch.
·**Memory:** 8-channel ECC DDR4 RDIMM/LRDIMM.16xDIMS
·**High energy efficiency system design**: Optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 4 2000w Titanium redundant power supplies for uninterrupted operation.
·**Flexible network module design**:The motherboard is equipped with 2 Gigabit network controllers, and the motherboard has an independent IPMI Gigabit management network port, which can achieve remote management and control, as well as KVM function.
·**Enhanced IT infrastructure management**: iKVM remote control can be paired with ASPEEDAST2600, a software and hardware level trust root solution for management.

Specification parameters

socket	2 XLGA4094; SP3 socket
Chipset Description	On-chip system
memory type	Only supports 16 DIMM slots DDR4 memory, 8-channel memory architecture
	Supports up to 128GB of RDIMM and up to 128GB of LRDIMM
	Supports 3DS RDIMM/LRDIMM up to 256GB
	Storage speed: up to 3200 MT/S
network interface	2X10GB/S LAN port (1 BROADCOM) ® BCM57416)
	Support NCSL function, 1X10/100/1000MBPS management LAN
Integrated video controller	INEGRATEDINASPEED®AST2600
On board interface	1 24 pin ATX main power connector
	2 8-pin ATX 12V power connectors
	2X CPU fan head
	4X system fan head
	1 XUSB 3.0 head
	1 XUSB 2.0 head
	1 X M.2 slot
	5 X SLMSAS connector
	4 X SATA connector
	1 X front panel head
	1 X Backboard Head
	1 X PBUS connector
	1 X IPMB connector
	1 XTP M-head
Rear I/O connector	2 X USB3.0
	1 X VGA
	1 X COM
	2 X RJ45
	1 X MLAN
	1 X ID UTTON WITHLED
TPM	1 X TPM connector with SPI interface optional TPM2.0 kit: CTM010

Support OS driver programs	CITRIX HYPERVISOR 8.2.0 or higher version
	RED HAT ENTERPRISE LINUX 8.3 or latest version
	Power control: Advanced power capped LDAP/AD/RADIUS support Backup and restore configuration updates for Xuancheng BLOS/BMC/CPLD Event log filter user management Media redirection settings PAM Order Settings SSL Settings SMTP Settings
PSU connector	1 24 pin ATX main power connector
	2 8-pin ATX 12V power connectors
Usage and storage environment	Working temperature: 10 ° C to 40C Working humidity: 8-80% (non condensing)
	Working temperature: -40 °C to 60 °C Non working humidity: 20% -95% (non condensing)
Chassis Structure	4U rack mounted
Chassis size	L800 * W447 * H177MM (with hanging ear width 482mm)
Main material	SGCC.OMM (galvanized steel plate)
COOLING SYSTEM	Supports intelligent temperature control and comes standard with 8 15000 RPM 8056 fans
Motherboard position	(15"*13")/EATX(12"*13")/CEB(12"*10.5")/ATX(12"*9.6") Micro ATX(9.6"*9.6")
Power supply position	4+1CRPS redundant power supply
Hard disk space	Four 3.5 "/2.5" hot swappable hard drive slots
Suitable for hard drives	Compatible with SAS/SATA hard drives
Hard disk backplane	Standard 12GB SAS direct connect backplane, optional 4NVME direct connect backplane
Graphics card slot	Supports 10 turbo graphics cards, with a graphics card length limit of 300MM
Graphics card extension cable	PCIe4.0SwitchGPU base * 2, SFF8654 to 8654 wires * 4
Power board and wires	Redundant power board * 1, motherboard power supply line * 1, CPU power supply line * 2, GPU motherboard, power supply line * 2, graphics card power supply line * 8, hard disk backplane power supply line * 1
Support rails	Optional 4U-600-0092 rail
Packaging method	Chassis+PE packaging+pearl cotton+accessory box+cardboard box
Package size	L1010*W58O*H285MM
Overall gross weight	25KG

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product information

SQHB3-GPU-G3

Intel LGA4189 3rd Generation Processor 4U Chassis 10 Card GPU Server

product description

·**Processor:** Equipped with dual AMD SP3 EPYC 7002/7003 processors.
·**Storage**:There are a total of 12 NVMe/SATA drives on the front chassis panel.
·**PCIe slot expansion**: Divide into 10 16X PCIe 4.0 slots through PCIe switch.
·**Memory:** 8-channel ECC DDR4 RDIMM/LRDIMM.16xDIMS
·**Enhanced I/O**: Supports PCIe 4.0, with a throughput twice that of PCIe 3.0, allowing for fast and large data transfers. In addition, each slot has 64 channels, up to a maximum of 128 channels in 2P configuration, enabling fast data transfer from CPU to GPU, accelerator, or storage device
·**CPU performance improvement**: Now, on the Intel 10nm architecture, each slot can support up to 40 cores, significantly improving IPC and CPU power consumption of 105-270W. In addition, an additional UPI channel has been added, with a speed of up to 11.2GT/s, achieving low latency interconnection between CPUs.
·**High energy efficiency system design**: Optimized heat dissipation design, with independent CPU and GPU air ducts, supporting up to 4 redundant 2000W power supplies to provide uninterrupted operation guarantee.

Specification parameters

Supported processors	3rd generation INTEL ® Xeon ® Scalable processor
	Intel ® xeon ® Platinum processor, Intel ® xeon ® Gold medal processor, Intel ® xeon ® Silver processor
	Dual processors, 10 nanometer technology
	CPU TOP up to 270W
SLOT	2 X LGA 4189
	SLOTP+
Chipset Description	Intel ® C621A chipset
memory type	16 x DIMM slots
	Only supports DDR4 memory
	8-channel memory architecture for each processor
	Supports RDIMM modules up to 128GB
	LRDIMM module, supporting up to 128GB
	Supports 3DS RDIMM/LRDIMM modules up to 256GB
	1.2V module: 3200/2933/2666 MHz
integration network	2 1Gb/s LAN ports (INTEL) ® I210-AT)
	1 10/100/1000 management LAN
Integrated video controller	Integrated in Aspen ® AST2600
	2D video graphics adapter with PCIe bus interface
	1920x1200@60Hz32bpp,DDR4 SDRAM
integrated audio controller	Not Applicable
Integrated SAT controller	Not Applicable
Integrated SATA controller	22 x 7-pin SATA 6Gb/s ports
	3 x SlimSAS, Equipped with 12xSATA 6Gb/s ports
Supports RAID functionality	Intel ® SATA RAID 0/1/10/5
TPM	1 x TPM connector with SPI interface
	Optional TPM2.0 kit: CTMO10
Optional TPM2.0 kit: CTMO10	1 x 24 pin ATX main power connector
	2 x 8-pin ATX12V power connector
	1 x 6-pin PCIe power connector

Onboard connector	1 x 24 pin ATX main power connector
	2 x 8-pin ATX12V power connector
	1 x 6-pin PCIe power connector
	3 x SlimSAS connectors
	2 x 7-pin SATA connector
	2 x M.2 slots
	1 x hard drive backplane board holder
	2 x CPU fan heads
	5 x System Fan Head
	1 x USB 3.0 interface
	1 x TPM needle holder
	1 x VROC connector
	1 x Front panel connector
	1 x PMBus connector
	1 x IPMB connector
	1 x Clear CMOS jumper
	1 x BIOS recovery jumper
	1 x chassis opening connector
Rear I/O connector	2 x USB 3.O
	1xVGA
	1x COM (RJ45 type)
	2xRJ45
	1xMLAN
	1xID button (with LED)
job attributes	Working temperature: 10 ° C to 40 ° C
	Working humidity: 8-80% (without condensation)
	Non working temperature: -40 ° C to 60 ° C
	Non working humidity: 20% -95% (no condensation)

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product information

SQHB2-GPU-2U

Xiaolong AMD EPYC 7002/7003 processor 2U chassis 2-card GPU server

product description

·**Appearance specification:** 2U rack mounted server
·**Powerful performance**:Equipped with dual AMD SP3 EPYC 7002/7003 processors.
·**Graphics card**: Supports 2 dual width GPUs, flexible configuration, and powerful performance.
·**Storage:**There are a total of 12 NVMe/SATA drives on the front chassis panel.
·**Memory**: 8-channel ECC DDR4 RDIMM/LRDIMM, 16 x DIMMs.
·**High energy efficiency system design**: optimized heat dissipation design, with independent CPU and GPU air ducts, redundant power supply provides uninterrupted operation guarantee.
·**Flexible network module design**: The motherboard is equipped with 2 Gigabit network controllers, and the motherboard has an independent IPMI Gigabit management network port, which can achieve remote management and control, as well as KVM function.
·**Enhanced IT infrastructure management**:iKVM remote control can be paired with ASPEEDAST2600, a software and hardware level trust root solution for management.

Specification parameters

socket	2 XLGA4094; SP3 socket
Chipset Description	On-chip system
memory type	Only supports 16 DIMM slots DDR4 memory, 8-channel memory architecture
	Supports up to 128GB of RDIMM and up to 128GB of LRDIMM
	Supports 3DS RDIMM/LRDIMM up to 256GB
	Storage speed: up to 3200 MT/S
network interface	2X10GB/S LAN port (1 BROADCOM) ® BCM57416)
	Support NCSL function, 1X10/100/1000MBPS management LAN
Integrated video controller	INEGRATED IN ASPEED®AST260O
On board interface	1 24 pin ATX main power connector
	2 8-pin ATX 12V power connectors
	2X CPU fan head
	4X system fan head
	1 XUSB 3.0 head
	1 XUSB 2.0 head
	1 X M.2 slot
	5 X SLMSAS connector
	4 X SATA connector
	1 X front panel head
	1 X Backboard Head
	1 X PBUS connector
	1 X IPMB connector
	1 XTP M-head
Rear I/O connector	2 X USB3.0
	1 X VGA
	1 X COM
	2 X RJ45
	1 X MLAN
	1 X ID UTTON WITHLED
TPM	1 X TPM connector with SPI interface optional TPM2.0 kit: CTM010

Support OS driver programs	CITRIX HYPERVISOR 8.2.0 Or higher version
	RED HAT ENTERPRISE LINUX 8.3 Or higher version
	Power control: Advanced power capped LDAP/AD/ RADIUS support Backup and restore configuration updates for Xuancheng BLOS/BMC/CPLD Event log filter user management Media redirection settings PAM Order Settings SSL Settings SMTP Settings
PSU connector	1 24 pin ATX main power connector
	2 8-pin ATX 12V power connectors
Usage and storage environment	Working temperature: 10 ° C to 40C Working humidity: 8-80% (non condensing)
	Working temperature: -40 °C to 60 °C Non working humidity: 20% -95% (non condensing)
Chassis size	650mm in length, 430mm in width, and 88mm in height
Outer packaging size	L860*W760*H400MM

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Email: szq@suqiao.cn

GPU Server Workstation

Equipped with a multi-core heterogeneous computing architecture, it provides trillion level floating-point computing capabilities, making it easy to handle high-intensity loads such as AI training and real-time rendering. Supporting thousands of threads for concurrent processing, greatly improving the efficiency of scientific simulation and big data analysis by several times. Modular design enables flexible expansion, supporting multi GPU cluster interconnection, PB level storage expansion, and CPU/memory hot upgrade. From gene decoding to 8K film and television creation, it reshapes the boundaries of industrial innovation with flexible computing power.

product information

SQ482-GPU-G1

product description

- 1S AMD EPYC Milan-X/Milan/Rome CPU
- 12 "x9.8" ATX chassis form
- 8 DIMM slots, supporting DDR4 3200 memory
- Up to 14 SATA ports
- 5 PCIe Gen.4 x16 slots
- 2 PCIe 4.0x8 SlimSAS connections for 4 NVMe U.2
- 2 NVMe M.2 22110/2280 slots
- 2 1000Base TLAN+1 dedicated 1000Base IPMI port
- AST2500 BMC with IPMIv2.0 and Redfish support

Specification parameters

VGA	1DB15(VGA)
USB	2 Type-A(USB3.2)
RJ45	2 RJ45(GbE),1 dedicated IPMI
COM	1 header
Package size	655mm*340mm*662mm
Dimensions	565mm*248mm*567mm
Hardware dimensions	500mm*236mm*525mm
Chassis IO port	TYPE-C*1+USB3.082+HD AUDIO
CPU heatsink height limit	185mm(MAX)
Graphics card length limit	455mm (without front fan)
	433mm (inside of front fan installation hardware)
Power supply length limit	200mm
Hard disk space	Bottom 3.5 inches * 4 (compatible with installation of 2.5 inches)
Fan position	Front end: 12cm * 3/14cm * 3
CPU Server Workstation	Package compartment 12cm * 3 motherboard 12cm * 3

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product information

SQ-P11SPA-G1

product description

·Supports LGA3647 CPU and 2ndIntel ® Xeon Scalable Processor
·Chipset adopts Intel technology ® PCHC621;
·Compliant with ATX specifications, 12 "X13" (305x244mm);
·The memory consists of 6 6-channel DIMM slots, supporting up to 768GB DDR42933MHz ECC RDIMM and LRDIMM;
·The motherboard supports 2 X16PCIe 3.0 slots;
·The motherboard supports 1 M.2 (NVME) and 8 SATA3;
·Two gigabit network controllers are installed on the motherboard;

Specification parameters

VGA	1DB15(VGA)
USB	2 Type-A(USB3.2)
RJ45	2 RJ45(GbE),1 dedicated IPMI
COM	1 header
Package size	655mm*340mm*662mm
Dimensions	565mm*248mm*567mm
Hardware dimensions	500mm*236mm*525mm
Chassis IO port	TYPE-C*1+USB3.082+HD AUDIO
CPU heatsink height limit	185mm(MAX)
Graphics card length limit	455mm (without front fan)
	433mm (inside of front fan installation hardware)
Power supply length limit	200mm
Hard disk space	Bottom 3.5 inches * 4 (compatible with installation of 2.5 inches)
Fan position	Front end: 12cm * 3/14cm * 3
CPU Server Workstation	Package compartment 12cm * 3 motherboard 12cm * 3

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product information

SQ582-GPU-G1

product description

- 1S AMD EPYC Genoa/Bergamo/GenoaXCPU
- CEB Form Factor
- 8 DIMM slots w/ DDR5 4800 memory support
- Up to 12 SATA ports
- 5 PCle 5.0 x16 slots
- 2 MCI0 8x & 2 MCI0 4x conn.(NVMe)
- 2 NVMe M.2 22110/2280 slots
- 21000Base-TLAN+1dedicate1000Base-TIPMl ports
- AST2600 BMC with IPMl 2.0 & Redfish support

Specification parameters

VGA	1DB15(VGA)
USB	2 Type-A(USB3.2)
RJ45	2 RJ45(GbE),1 dedicated IPMI
COM	1 header
Package size	655mm*340mm*662mm
Dimensions	565mm*248mm*567mm
Hardware dimensions	500mm*236mm*525mm
Chassis IO port	TYPE-C*1+USB3.082+HD AUDIO
CPU heatsink height limit	185mm(MAX)
Graphics card length limit	455mm (without front fan)
	433mm (inside of front fan installation hardware)
Power supply length limit	200mm
Hard disk space	Bottom 3.5 inches * 4 (compatible with installation of 2.5 inches)
Fan position	Front end: 12cm * 3/14cm * 3
CPU Server Workstation	Package compartment 12cm * 3 motherboard 12cm * 3

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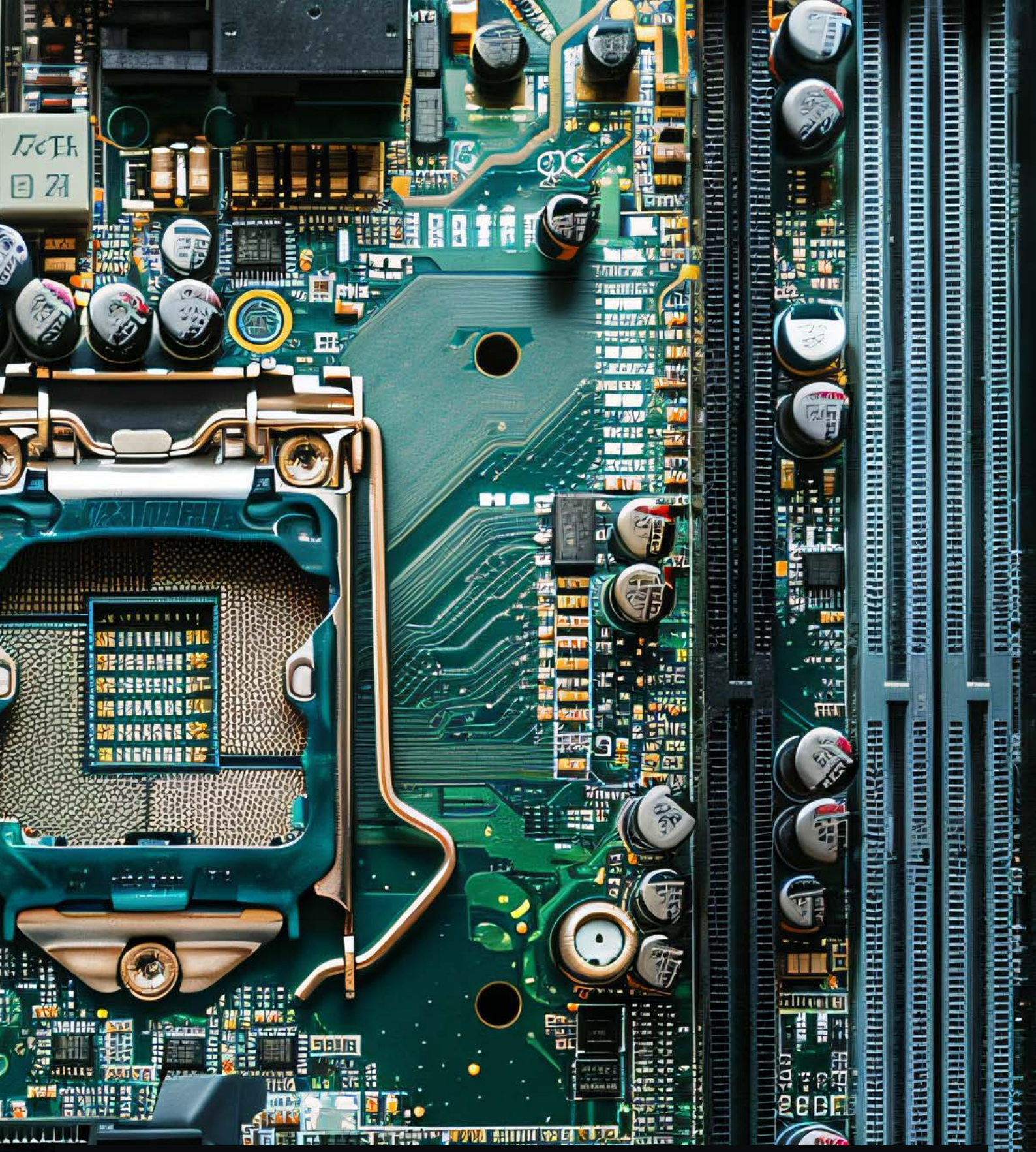
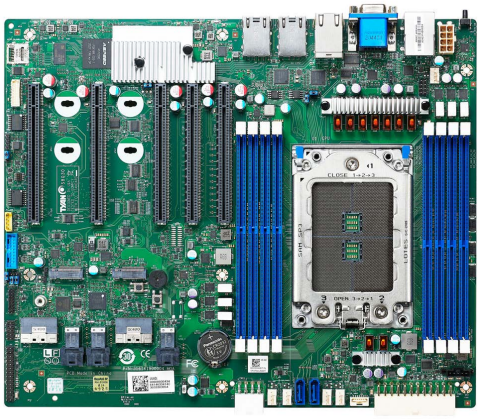


motherboard

Motherboard is the core component of a computer, serving as the "central platform" of the hardware system, connecting and coordinating all key components such as CPU, memory, graphics card, storage devices, etc. It provides slots, interfaces, and circuits to ensure efficient communication between hardware components, while integrating chipsets, BIOS/UEFI firmware, and power modules, determining the system's scalability, compatibility, and performance limits. It is the fundamental carrier for stable computer operation.

product information

S8030GM2NE



product description

- 1S AMD EPYC Milan-X / Milan / Rome CPU
- 12" x 9.8" ATX form factor
- 8 DIMM slots w/ DDR4 3200 memory support
- Up to 14 SATA ports
- 5 PCIe Gen.4 x16 slots
- 2 PCIe 4.0 x8 SlimSAS conn. for 4 NVMe U.2
- 2 NVMe M.2 22110 / 2280 slots
- 2 1000Base-T LAN + 1 dedicate 1000Base-T IPMI ports
- AST2500 BMC with IPMI v2.0 & Redfish support

Specification parameters

DIMM Type / Speed	DDR4 ECC RDIMM/RDIMM 3DS/LRDIMM/LRDIMM 3DS 3200
Memory channel	8 Channels per CPU
PHY	Realtek RTL8211E
COM	(1) header
VGA	(1) D-Sub 15-pin VGA port (@ rear)
SATA	2X SATA/3X SFF-8643 FOR 12XSATA 6GB/S
Power	ATX 24-pin + (2) 8-pin power connectors
Connector type	D-Sub 15-pin
Cable SATA	(2) SATA signal cables
Temperature	Monitors temperature for CPU, memory & system environment
Voltage	Monitors voltage for CPU, memory, chipset & power supply
Others	Watchdog timer support
Brand / ROM size	AMI / 32MB
Board Dimension	12" x 9.9" (305 x 250.8mm)
I/O Shield	(1) I/O Shield
OS supported list	Please refer to our AVL support lists.

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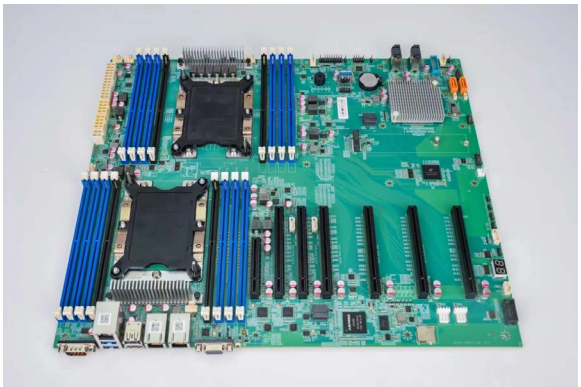
product information

SQ-X11D2A



product description

·Supports 1/2 first/second-generation Intel Xeon Scalable Series processors

·The memory adopts 16 DIMM Dual Channels and supports up to 2TB ECC RDIMM/LRDIMM

·The motherboard supports 6 PCIe3.0x16 and 1 PCIe3.0 x4 (in X8 slot expansion slot)

·The motherboard PCH can support up to 10 SATA3.0 interfaces

(2*8087 Connector+2*SATA 3.0)， Supports RAID 0, 1, 5, 10;

·Two gigabit network controllers onboard the motherboard

·The motherboard has an independent IPMI gigabit management network port, which can achieve remote management and control, as well as KVM function

Specification parameters

CPU	Supports two Intel Xeon Scalable First and Second Generation CPUs LGA3647
South Bridge	Intel® C621
BMC	ASPEED AST2500
Audio chip	ALC897
networking chip	I210-AT * 2
Memory	Supports 16 memory sticks
Supported memory frequencies	2933/2666/2400/2133 MT/s ECC DDR4 LRDIMM (3DS), RDIMM (3DS)
Rear window IO	1 个 VGA DB15
	Two 1000M/100M/10Mbps adaptive network ports
	2 USB 3.0+remote management network ports
	1 COM DB9 interface
Motherboard size	15.12" x 13.2" (38.4cm x 33.53cm)
temperature	Operating: 0 to 60°C Storage: -20 to 75°C
humidity	5 to 95% RH (non-condensing)
CPU Server Workstation	Package compartment 12cm * 3 motherboard 12cm * 3

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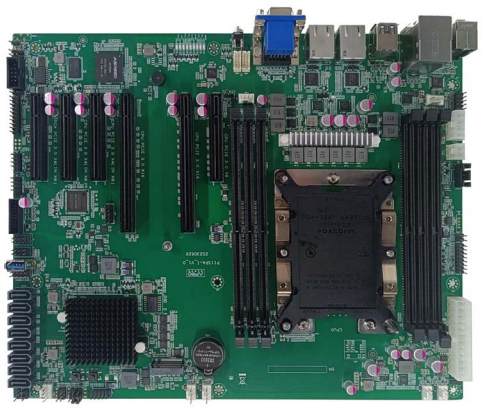
product information

SQP11SPA-I



product description

·Supports LGA3647 CPU and 2ndIntel ® Xeon Scalable Processor

·Chipset adopts Intel technology ® PCHC621;

·Compliant with ATX specifications, 12 "X13" (305x244mm);

·The memory consists of 6 6-channel DIMM slots, supporting up to 768GB DDR42933MHz ECC RDIMM and LRDIMM;

·The motherboard supports 2 X16PCIe 3.0 slots;

·The motherboard supports 1 M.2 (NVME) and 8 SATA3;

·Two gigabit network controllers are installed on the motherboard;

Specification parameters

CPU	2nd Gen Intel® Xeon® Scalable Processors
Chipset	Intel® C621
BOIS	256Mb UEFI
Memory Type	2933/2666/2400/2133MHz ECC 3DS DDR4 LRDIMM, RDIMM
DIMM Sizes	LRDIMM: 64GB, 128GB | RDIMM: 64GB, 128GB
VGA	1 X VGA
Graphics	AST2400
Network Controllers	1 x Realtek RTL8211E PHY (dedicated IPMI)
	2 x I210AT
USB3.0+IPMI	2 x USB3.0+RJ45(IPMI)
USB3.0	2 x USB3.0
Power supply length limit	200mm
VGA+COM	1 x DB15 +DB9
USB 2.0	4 x USB (Header 2 x 5 2.54mm)
GPIO	8 x GPIO (Header 2 x 5 2.54mm)

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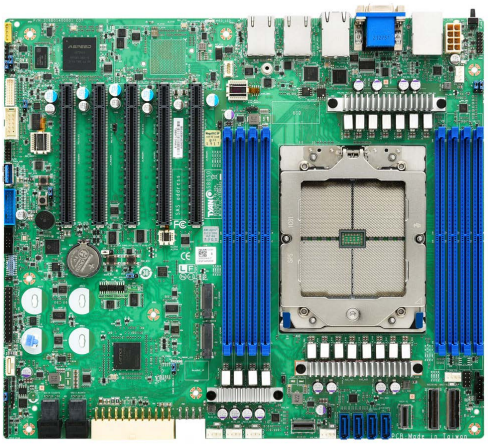
product information

S8050GM2NE



product description

- 1S AMD EPYC Genoa/Bergamo/GenoaXCPU
- CEB Form Factor
- 8 DIMM slots w/ DDR5 4800 memory support
- Up to 12 SATA ports
- 5 PCIe 5.0 x16 slots
- 2 MCI0 8x & 2 MCI0 4x conn.(NVMe)
- 2 NVMe M.2 22110/2280 slots
- 21000Base-TLAN+1dedicate1000Base-TIPMl ports
- AST2600 BMC with IPMl 2.0 & Redfish support

Specification parameters

Q'ty / Socket Type	(1) AMD Socket SP5
Supported CPU Series	(1) AMD EPYC ™ 9004/9005 Series Processor
Thermal Design Power Wattage	Max up to 400W (cTDP)
NVMe	(2) MCIO x4 / (2) MCIO x8
USB	(2) USB3.2 Gen.1 ports
COM	(1) DB-9 COM Connector
VGA	(1) D-Sub 15-pin port
RJ-45	(2) GbE ports + (1) GbE dedicated for IPMI
Front Panel	(1) 2x12-pin SSI front panel header
SATA	(2) Mini-SAS HD (SFF-8643) connectors / (4) 7-pin SATA connectors
Power	(2) 2x4 Power input connectors / (1) 2x12 Power input connector
Others	(1) ID button
Board Dimension	12” x 10.5” (305 x 267mm)
Form Factor	CEB
I/O Shield	(1) I/O Shield
OS supported list	Please refer to our AVL support lists.

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Nvdia

Excellent performance, smooth and efficient graphics processing, capable of easily handling complex 3D games and professional design tasks. Exquisite heat dissipation design, stable long-term operation, and extremely low noise. Adopting advanced architecture and high-capacity video memory, supporting multi screen display, providing users with a stunning visual experience, it is an ideal choice for gamers and creators

NVIDIATesla A100

specification

Product Name	A100 40G
Chipset Name	NVIDIA A100-SXM4 40GB
GPU	GA100
Technology	7 nanometers
CUDA Cores	6912
Base/Boost Clock	Basic frequency: 1215MHz, acceleration frequency: 1410MHz
Memory Ciock	80GB
Memory Config	HBM2e
Bus Width	5120bit
Bandwidth	1555.2GB/s
Display Connectors	PCIe
Cooling Design	Heat pipe heat dissipation
Output interface	NO
supplementary Power Connectors	8PIN
Graphics Card Power	250W
card Dimension	267*116*40MM

Product appearance

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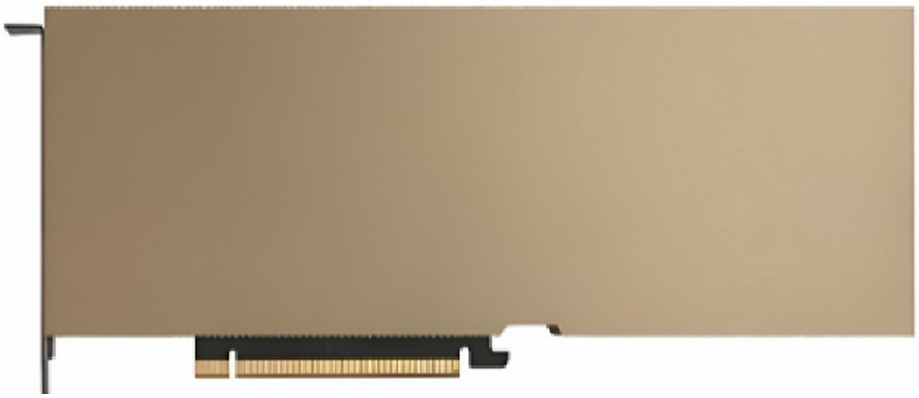
NVIDIATesla A100

specification

Product Name	A100 80G
Chipset Name	NVIDIA A100-SXM4 80GB
GPU	GA100
Technology	7 nanometers
CUDA Cores	6912
Base/Boost Clock	Basic frequency: 1215MHz, acceleration frequency: 1410MHz
Memory Ciock	80GB
Memory Config	HBM2e
Bus Width	5120bit
Bandwidth	1555.2GB/s
Display Connectors	PCIe
Cooling Design	Heat pipe heat dissipation
Output interface	NO
supplementary Power Connectors	8PIN
Graphics Card Power	400W
card Dimension	267*116*40MM

Product appearance



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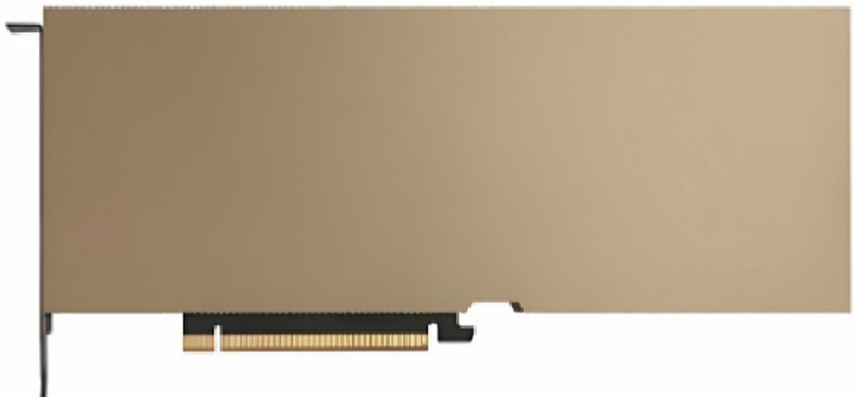
NVIDIATesla A800

specification

Product Name	A800 80G
Chipset Name	NVIDIA A800-SXM4 80GB
GPU	GA100
Technology	7 nanometers
CUDA Cores	10572
Base/Boost Clock	Basic frequency: 1410MHz, acceleration frequency: 1410MHz
Memory Capacity	80GB
Memory Config	HBM2e
Bus Width	5120bit
Bandwidth	1935GB/s
Display Connectors	PCIe
Cooling Design	Heat pipe heat dissipation
Output interface	NO
supplementary Power Connectors	8PIN
Graphics Card Power	300W
card Dimension	267*116*40MM

Product appearance



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NVIDIATesla H100

specification

Product Name	H100 80G
Chipset Name	NVIDIA H100-SXM5 80GB
GPU	2330
Technology	4nanometers
CUDA Cores	16896
Base/Boost Clock	Basic frequency: 1980MHz, acceleration frequency: 2619MHz
Memory Capacity	80GB
Memory Config	HBM2e
Bus Width	5120bit
Bandwidth	1676.2GB/s
Display Connectors	PCIe
Cooling Design	Heat pipe heat dissipation
Output interface	NO
supplementary Power Connectors	8PIN
Graphics Card Power	400W
card Dimension	267*116*40MM

Product appearance

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NVIDIATesla H800

specification

Product Name	H800 80G
Chipset Name	NVIDIA H800-SXM5 80GB
GPU	2330
Technology	
CUDA Cores	6912
Base/Boost Clock	
Memory Capacity	80GB
Memory Config	HBM2e
Bus Width	5120bit
Bandwidth	1555GB/s
Display Connectors	PCIe
Cooling Design	Heat pipe heat dissipation
Output interface	NO
supplementary Power Connectors	8PIN
Graphics Card Power	300W
card Dimension	267*116*40MM

Product appearance

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GeForce RTX 2080TI 22G

specification

Product Name	GeForce RTX 2080T122G
Chipset Name	GeForee RTX2080T122G
GPU	TU102-300A-K1
Technology	12nanometers
CUDA Cores	4352
Base/Boost Clock	Basic frequency: 1545MHz, acceleration frequency: 1750MHz
Memory Ciock	16000MHz
Memory Config	GDDRG
Bus Width	352bit
Bandwidth	616.0GB/s
Max Resolution	7680*4320
Display Connectors	3*DP,1*HMDI,1*TYPE-C
Cooling Design	turbofan
Max GPU Temperature	89
supplementary Power Connectors	8PIN+8PIN
Graphics Card Power	250W

Product appearance

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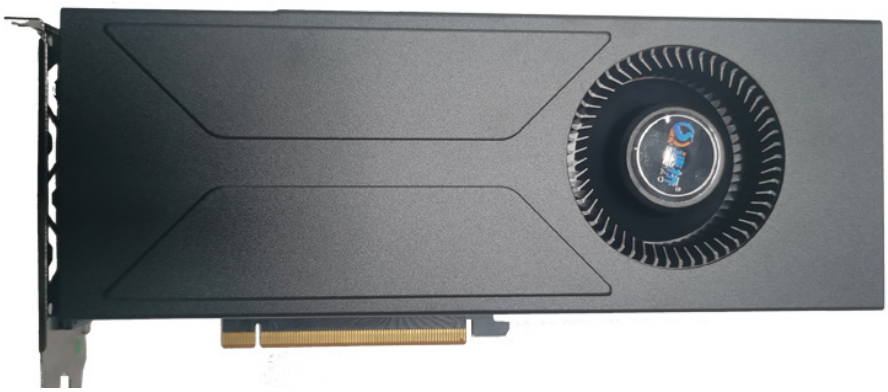
GeForce RTX 3060

specification

Product Name	GeForce RTX 3060
Chipset Name	GeForce RTX 3060
GPU	GA106-302-A1
Technology	12nanometers
CUDA Cores	3584
Base/Boost Clock	Basic frequency: 1545MHz, acceleration frequency: 1750MHz
Memory Ciock	1875MHZ
Memory Config	12GB GDDR6X
Bus Width	192bit
Bandwidth	360.0GB/s
Max Resolution	7680*4320
Display Connectors	Heat pipe heat dissipation
Cooling Design	turbofan
Max GPU Temperature	90
supplementary Power Connectors	1*PCle Gen5 8-pin
Graphics Card Power	170W
card Dimension	267*111*39MM

Product appearance



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GeForce RTX 3080 22G

specification

Product Name	GeForce RTX 3080
Chipset Name	GeForce RTX 3080
GPU	GA102
Technology	8nanometers
CUDA Cores	8704
Base/Boost Clock	1440MHz
Memory Ciock	19000MHz
Memory Config	GDDR6X
Bus Width	320bit
Bandwidth	760.3GB/s
Max Resolution	7680*4320
Display Connectors	1xHDMI 2.1，3xDisplayPort
Cooling Design	turbofan
Max GPU Temperature	93
supplementary Power Connectors	8pin+8pin
Graphics Card Power	350W
card Dimension	278*125*40MM

Product appearance

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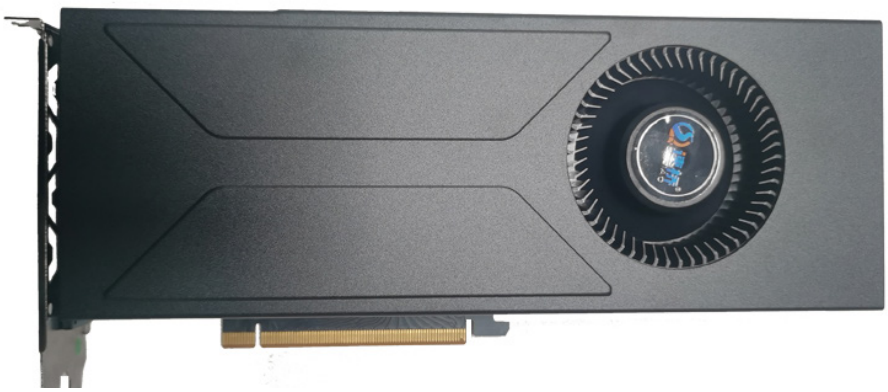
GeForce RTX 3090

specification

Product Name	GeForce RTX 3090
Chipset Name	GeForce RTX 3090
GPU	GA102-300-A1
Technology	8nanometers
CUDA Cores	10496
Base/Boost Clock	Basic frequency:1400MHz, acceleration frequency: 1700MHz
Memory Ciock	19500MHZ
Memory Config	24GB GDDR6X
Bus Width	384bit
Bandwidth	936.2GB/s
Max Resolution	7680*4320
Display Connectors	Heat pipe heat dissipation
Cooling Design	turbofan
Max GPU Temperature	93
supplementary Power Connectors	8pin+8pin
Graphics Card Power	350W
card Dimension	278*125*40MM

Product appearance



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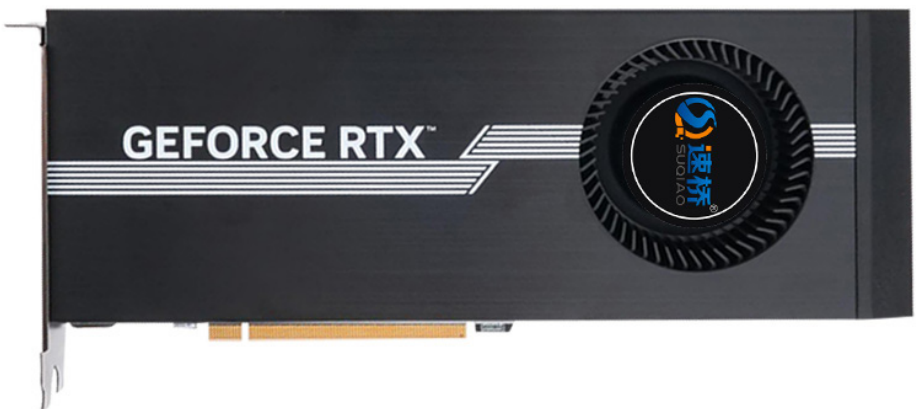
GeForce RTX 3080 22G

specification

Product Name	RTX 4080 16GD6X
Chipset Name	RTX 4080 16GD6X
GPU	AD103
Technology	5nanometers
CUDA Cores	9728
Base/Boost Clock	2205 MHz
Memory Ciock	2205MHZ
Memory Config	16GB GDDR6X
Bus Width	256bit
Bandwidth	717GB/s
Max Resolution	7680*4320
Display Connectors	HDMI / DP*3
Cooling Design	turbofan
Max GPU Temperature	90
Supplementary Power Connectors	1*PCle Gen5 16-pin
Graphics Card Power	320W
Card Dimension	269*111*35 mm

Product appearance



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GeForce RTX 3090

specification

Product Name	GeForce RTX 4090
Chipset Name	GeForce RTX 4090
GPU	AD102-300-A1
Technology	4nanometers
CUDA Cores	16384
Base/Boost Clock	Basic frequency:2235MHz, acceleration frequency: 2520MHz
Memory Ciock	21000MHZ
Memory Config	24GB GDDR6X
Bus Width	384bit
Bandwidth	1008.4GB/s
Max Resolution	7680*4320
Display Connectors	Heat pipe heat dissipation
Cooling Design	turbofan
Max GPU Temperature	90
supplementary Power Connectors	1*PCle Gen5 16-pin
Graphics Card Power	450W
card Dimension	267*111*39MM

Product appearance

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