



RISC-V Server

- | RS-SRA120(Compute Server)
- | RS-SRB120(Storage Server)
- | RS-SRM120(Converged Server)

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T-CHIP INTELLIGENCE TECHNOLOGY



Product features



High-performance RISC-V processors

The server is equipped with two high-performance RISC-V processors SG2042, dual-core interconnection architecture, strong performance, up to 128 cores concurrency, and mixed-precision computing.



Powerful video processing capabilities

Support H.265 & H.264 1080P@9600fps video decoding, H.265 & H.264 1080P@3600fps video encoding.



Huge storage space

It has eight 3.5-inch/2.5-inch SAS/SATA hard drive bays, supports SATA 3.0 HDD/SSD hard disk expansion, allows the device to easily expand to TB-level ultra-large capacity, and supports hot-swap quick replacement.



Secure and high-speed network communication

Equipped with dual-channel Gigabit Ethernet, high-speed and stable network communication mode, to meet the needs of different application scenarios. The independent IPMI management network interface separates the management network from the service network to ensure the security and reliability of network communication.

Product features



Standard 2U rack server

The standard 2U rack server chassis design is flexible for deployment and fully matches most types of cabinets in the data center. It is equipped with four high-efficiency cooling fans and two 1300W pluggable power supplies for easy maintenance.



Open source instruction set

Based on the international open-source RISC-V instruction set, there is no authorization restriction, and it supports mainstream operating systems, creating a truly open computing platform and making innovation ubiquitous.



Supports multiple operating systems

Supports Fedora, Ubuntu, openKylin, openEuler, deepin and other operating systems to meet the needs of different scenarios.



A wide range of applications

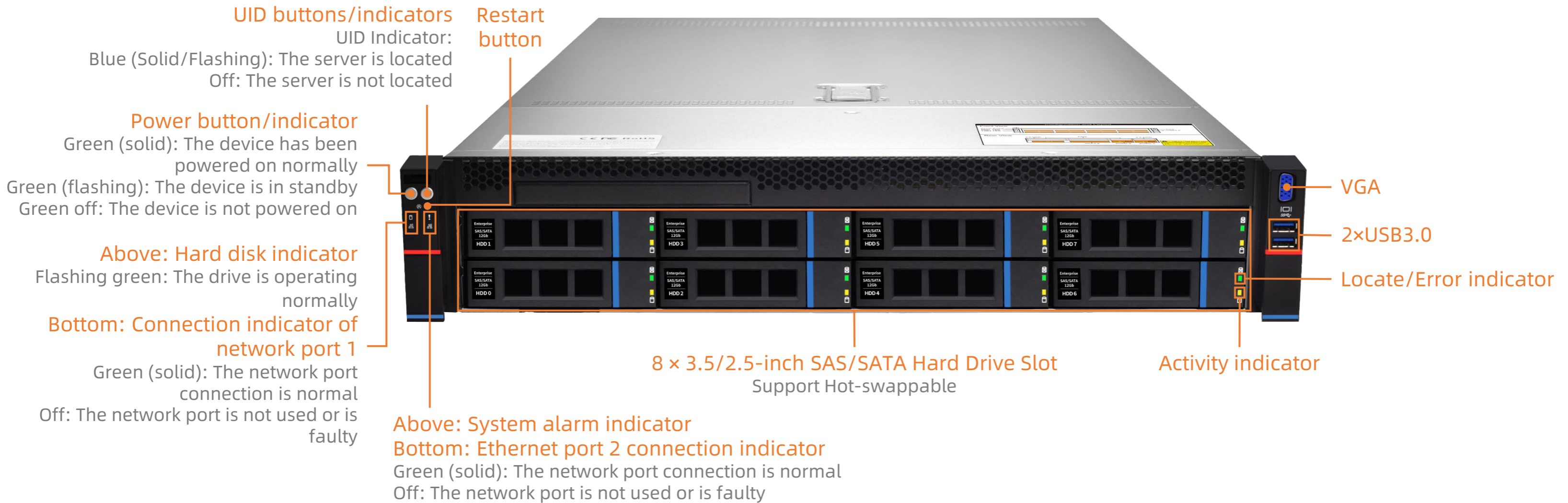
It is widely used in large models, deep learning, cloud storage, scientific computing, ecological development, intelligent computing centers, operators, privacy computing, cryptography and other types of products and fields.

Specifications

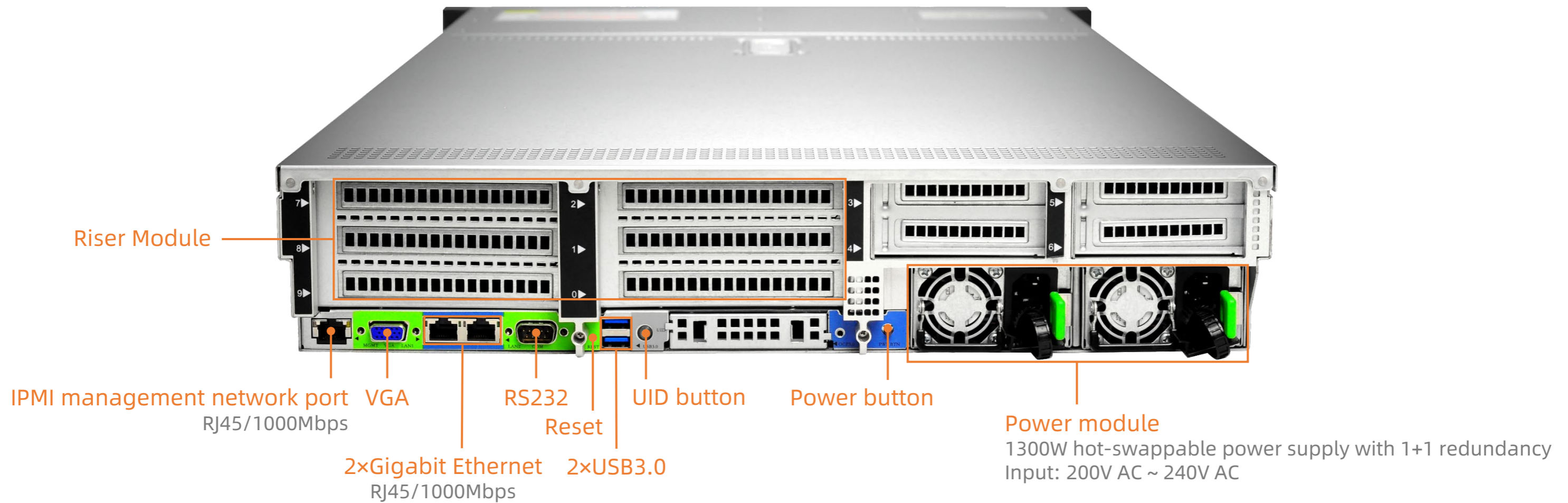


		RS-SRA120(Compute Server)	RS-SRB120(Storage Server)	RS-SRM120(Converged Server)
Basic Specifications	Product form	2U rack server		
	Processor	Two SG2042 64-core RISC-V processors@2.0GHz		
	Computing accuracy	-	-	INT8/FP16/BF16/FP32
	Video decoding	-	-	H.265 & H.264: 1080P@9600fps (Resolution: 8K/4K/1080P/720P/D1/CIF)
	Video encoding	-	-	H.265 & H.264: 1080P@3600fps (Resolution: 4K/1080P/720P/D1/CIF)
	Memory	256GB (Eight RDIMM memory modules, each with a capacity of 32GB, and a maximum rate of 3200MT/s)		
	Video memory	-	-	192GB LPDDR4X
	Storage	Comes standard with two 1TB M.2 2280 NVME SSDs Supports eight 3.5/2.5-inch SAS/SATA hard drives and supports hot swapping	Comes standard with two 1TB M.2 2280 NVME SSDs Comes standard with eight 12TB 3.5-inch SATA hard drives, supporting hot swapping	Comes standard with two 1TB M.2 2280 NVME SSDs Supports eight 3.5/2.5-inch SAS/SATA hard drives and supports hot swapping
	RAID	Supports RAID 0/1/10/5/50/6/60, etc	Comes standard with 1 disk array card, supports RAID 0/1/10/5/50/6/60, etc	Supports RAID 0/1/10/5/50/6/60, etc
	Power	2 × 1300W hot-swappable power supplies, support 1+1 redundancy (Input: 200V AC ~ 240V AC)		
	Fan module	4 hot-swappable fans with N+1 redundancy		
	OS	Fedora 38 (Default installation)/Ubuntu 24.04/openKylin 1.0/openEuler 24.03/deepin 23		
	Size	748.0mm (L) × 433.4mm (W) × 87.2mm (H)		
	Weight	Net weight: 17.9kg, Total weight with package: 25.75kg		
Environment	Operating Temperature: 10°C ~ 40°C, Operating Humidity: 35% ~ 80%RH, Storage Temperature: -40°C ~ 65°C, Storage Humidity: 20% ~ 90%RH			
Interface Specifications	Internet	2 × Gigabit Ethernet (RJ45, service), 1 × Gigabit Ethernet (RJ45, IPMI management)		
	PCIe	6 × PCIe3.0		
	USB	5 × USB3.0 (One of them is inside the device)		
	VGA	2 × VGA		
	Manage serial ports	1 × RS232 (DB9)		

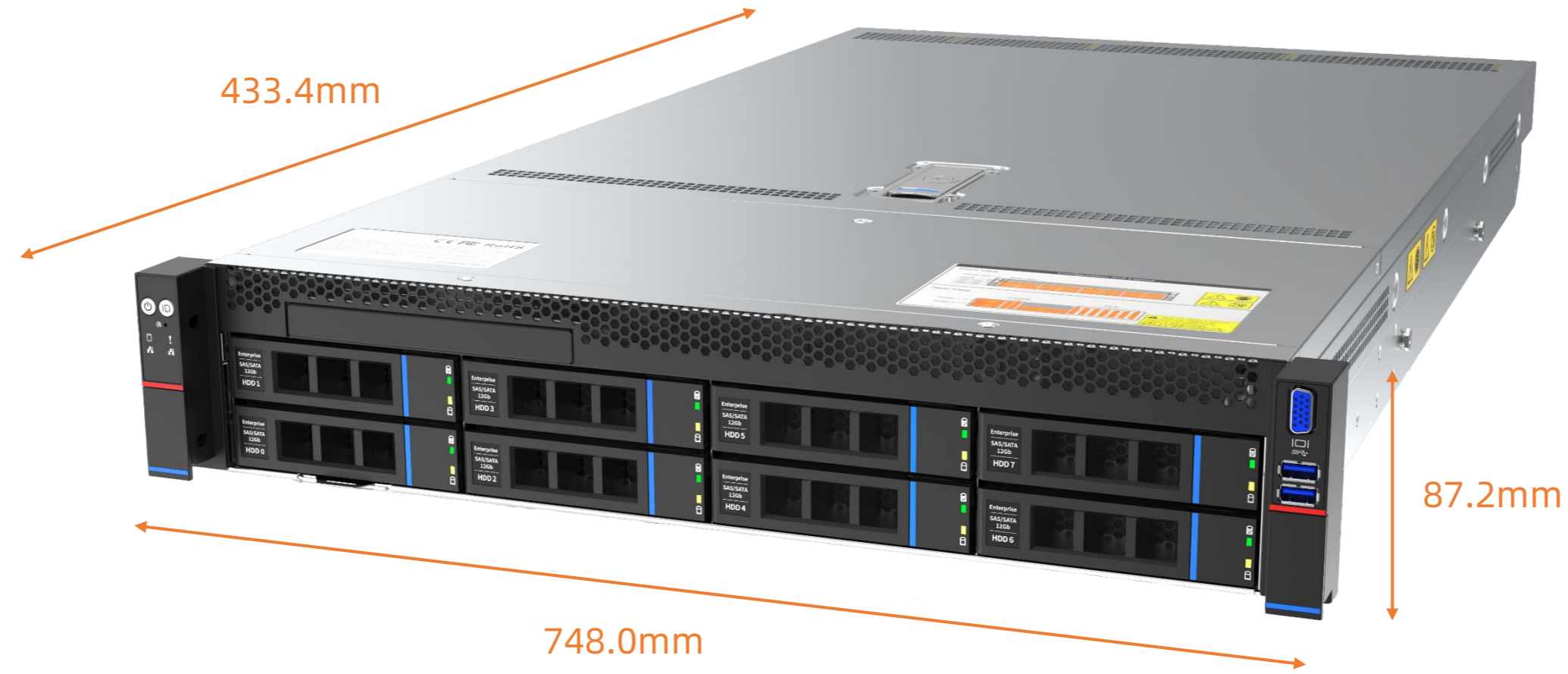
Interface description



Interface description



Dimension





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