

Embedded SuperServer ARS-111L-FR

1U Short-depth, front I/O system featuring NVIDIA Grace CPU C1

Key Applications

Virtualization, Firewall Applications, Edge/Cloud Computing Services, CDN/vCDN/Cloud CDN, 5G Networking, VRAN/ORAN for Telecom,

Key Features

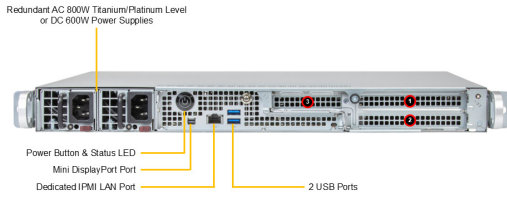
- 72 Arm Neoverse V2 cores with 4x 128b SVE2;
- Support for up to 2 single-width PCIe GPU accelerator cards;
- 240GB LPDDR5X Up to 512GB/s Memory bandwidth;
- Support NVIDIA® ConnectX®-7 NIC;
- Up to 2 PCIe 5.0 x16 FHFL + 1 PCIe 5.0 x16 LP slots;
- Up to 2 internal fixed 2.5" NVMe drive bays;
- 2 Redundant 800W Platinum/Titanium Level PWS or 600W DC PWS;



Form Factor	1U Rackmount Enclosure: 437 x 43 x 429mm (17.2" x 1.7" x 16.9") Package: 686 x 203 x 610mm (27" x 8" x 24")
Processor	Single processor(s) NVIDIA Grace™ CPU C1 72C/72T
GPU	Max GPU Count: Up to 2 single-width GPUs Supported GPU: NVIDIA PCIe: L4
System Memory	Onboard Memory 240GB ECC LPDDR5X
Drive Bays Configuration	Default: Total 2 bays <ul style="list-style-type: none"> • 2 internal fixed 2.5" NVMe drive bays M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default))
Expansion Slots	Default <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHFL slots • 1 PCIe 5.0 x16 HHHH slot
On-Board Devices	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.2 Gen1 ports Video: 1 mini-DP port TPM: 1 TPM header

(Front View – System)

(Rear View – System)



Slot Description	
	PCIe 5.0 x16 FHFL (without U.2 storage) or FHFL (with U.2 storage)
	PCIe 5.0 x16 HHHL

System Cooling	Fans: 6 Heavy duty counter-rotating fans with optimal fan speed control 4cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 800W Redundant Platinum Level (94%) power supplies
System BIOS	BIOS Type: AMI 64MB UEFI BIOS Features: Plug and Play (PnP) ACPI 6.4 SMBIOS 3.5 or later UEFI 2.8 USB Keyboard support
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!; IPMI Utilities
PC Health Monitoring	CPU: Monitors for CPU thermal trip, Chipset Voltages, Memory FAN: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors Voltage: System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support
Dimensions and Weight	Weight: Gross Weight: 14.99 lbs (6.8 kg) Net Weight: 10.01 lbs (4.54 kg) Available Color: No Paint
Operating Environment	Operating Temperature: 0°C to 40°C (32°F to 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	Super G1SBC
Chassis	CSE-515B2-R00NP