

SKY-821E3

Compact 2U High Performance Edge Server with dual AMD EPYC 9004 processors



Features

- Support all AMD EPYC 9004 family CPU up to 400W TDP
- 24x DDR5 4800MHz RDIMM/3DS RDIMM
- Up to 4 FHFL, 2 FHHL and 2 Low Profile PCIe Gen5
- 2 2.5" NVMe and 2 M.2 2280 NVMe SSD support
- 1 OCP 3.0 PCIe Gen5 x16 NIC support
- Support optional front bezel

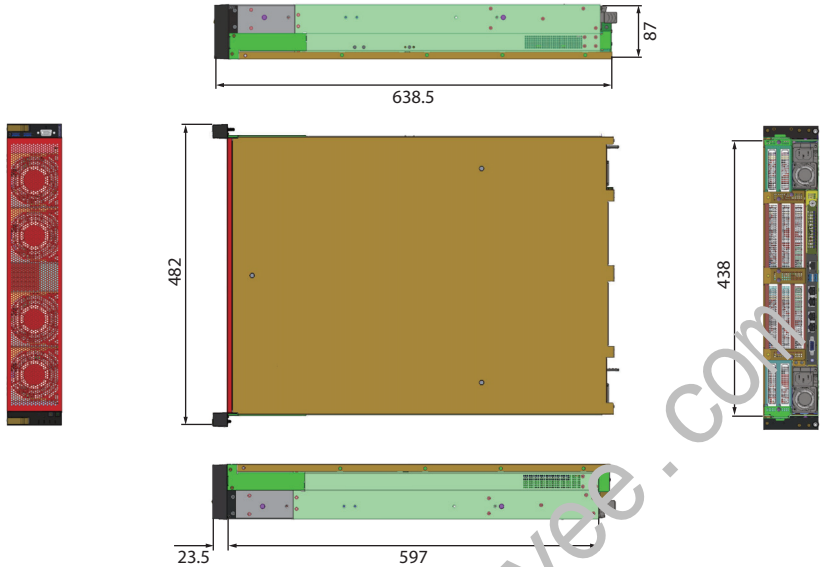


Specifications

System P/N		SKY-821E3-R
Processor	Family	AMD® EPYC™ Embedded 9004 Series Server Processors
	Number	2
	Cores	Up to 128 cores
	Cache	L3 Cache (up to 256M/CPU)
	Speed	Up to 4.1GHz
	Max TDP	400W
Memory	Type	DDR5 4800MHz RDIMM/3DS RDIMM
	Slots	24
Storage	Capacity	Up to 96GB RDIMM/slot Up to 256GB 3DS RDIMM/slot
	2.5" HDD/SSD	2 (rear)
Expansion Slots	M.2 SSD	2 (Default: NVMe, Option: SATA)
		[SKU 1] 2 FHFL PCIe 5.0 x 16 2 FHFL PCIe 5.0 x 8 2 FHHL PCIe 5.0 x 8 2 Low Profile PCIe 5.0 x 8 (Optional) 2 Low Profile PCIe 5.0 x 8 [SKU 1]
		2 FHFL double-slots PCIe 5.0 x 16 2 FHHL PCIe 5.0 x 8 2 Low Profile PCIe 5.0 x 8 (Optional) 2 Low Profile PCIe 5.0 x 8 1 OCP3.0 PCIe 5.0 x16
	Network Interfaces	2 GbE RJ45 (1 GbE RJ-45 Mgmt Share NIC) 2 10GbE RJ45
	USB	Front: 1 USB 3.0 (upper port), 1 USB 2.0 (lower port) Rear: 2 USB3.0
	LED Indicator	1 Power status 1 System status 1 HD activity 1 Network activity 1 System UID
I/O & Ports	Video	1 D-sub (Front), 1 D-sub (Rear)
	Others	1 Serial console port (RJ-45)
Power Supplies	Type	CRPS
	Power Rating	1200W red. AC PSU
System Cooling		4 system FAN with smart FAN control
Mechanical	Form Factor	2U12
	Dimensions (W x H x D) mm	438 x 88 x 597 mm
	Weight (KG)	25 kg
System Management		Aspeed AST2600 Advanced Lights Out Management compliant to IPMI2.0 and Redfish with security and availability enhancements iKVM Support Configurable shared or dedicated NIC support
Supported OS		Linux (CentOS, Red Hat, Ubuntu), Windows server
Environment	Humidity Operational (non-condensing)	5% to 85%
	Operational Temperature	0 °C (32 °F) to 35 °C (104 °F)
	Storage Temperature	-40 °C (-40 °F) to 70 °C (158 °F)
Certification		CE/FCC/CB/UL

Dimensions

Unit: mm



Front View (w/ optional bezel)

Rear View



Ordering Information

PN	CPU	Memory	PCIe Slots	Storage	I/O	PSU
SKY-821E3-R12	Dual socket, AMD EPYC 9004 family processors	24 DDR5 DIMM Slots	2 FHFL PCIe 5.0 x 16 2 FHFL PCIe 5.0 x 8 2 FHHL PCIe 5.0 x 8 2 Low Profile PCIe 5.0 x 8 1 OCP3.0 PCIe 5.0 x16	2 2.5" NVMe (Rear, SATA optional) 2 M.2 2280 PCIe	2 GbE RJ45 (1 GbE RJ-45 Mgmt Share NIC) 2 10GbE RJ45 1 USB3.0 (front) 1 USB2.0 (front) 2 USB3.0 (rear) 1 D-sub (front) 1 D-sub (rear) 1 Serial Console port (RJ-45)	Redundant 1+1 CRPS 1200W

Packing List

Part no.	Description
1970005850T001	2U Standard CPU Heatsink

Optional Accessories

Part no.	Description
1970005835T001	2U EVAC CPU Heatsink (for high TDP)
1702002600	Power cord 3P 180 cm, USA
1702002605	Power cord 3P 180 cm, Europe
1700000237	Power cord 3P 180 cm, JP
1700009652	Power cord 3P 180 cm, China
1700027969-01	Power cable for GPU card
968DE00065	Short-depth full extension slide rail