SKY-642E3

4U 8GPU High Performance Edge Server with dual AMD EPYC 9005 processors



Features

- Support all AMD EPYC 9005 family CPU up to 400W TDP
- 24x DDR5 5600/6400Mhz RDIMM
- Support PCIe Switch Backplane, Up to 13 FHFL x16, 1 HHHL x8 PCIe Gen5
- Up to 16 E1.S NVMe SSD and 2 M.2 2280 NVMe SSD support
- 10 double-deck system fans for 8 high TDP GPU cooling

Specifications

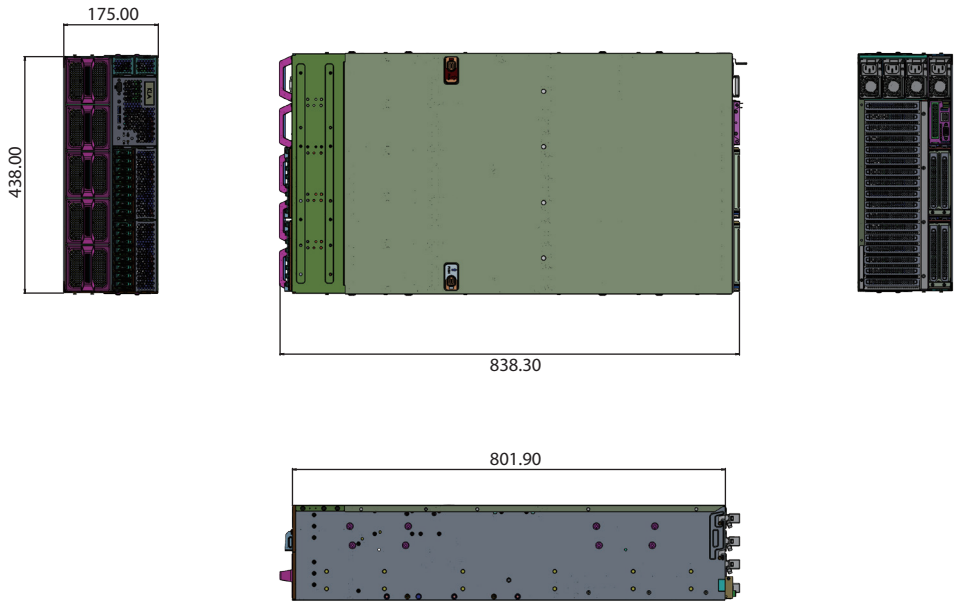
System P/N		SKY-642E3-E8R96
Processor	Family	AMD EPYC 9005 family processors
	Number	2
	Cores	Up to 128 cores
	Cache	L3 Cache (up to 256M/CPU)
	Speed	Up to 4.1GHz
	Max TDP	400W
Memory	Type	DDR5 5600/6400MHz RDIMM
	Slots	24
	Capacity	Up to 128GB RDIMM/slot Total Up to 3TB
Storage	E1.S SSD (front door)	Default: 8units ; Option 16units
	M.2 2280 SSD (on board)	2 (NVMe)
Expansion Slots		8x PCIe 5.0 x16 for GPU Additional 1x PCIe 5.0 x16 for NIC (Via CPU) 4x PCIe 5.0 x16 for NIC (Bottom) Additional 1x PCIe 5.0 x8 for NIC (Bottom)
I/O & Ports	Network Interfaces	1 GbE RJ45 Mgmt port
	USB	Front: 2 USB3.0 Rear: 1 USB3.0
	LED Indicator	1 Power status 1 System status 1 System Reset
	Video	1 D-sub (Front), 1 D-sub (Rear)
Power Supplies	Type	CRPS 3+1 Redundancy
	Power Rating	3200W Redundant AC PSU
System Cooling		10 system FANs with smart FAN control
Mechanical	Form Factor	4U
	Dimensions (W x H x D) mm	438 x 175 x 801.9 mm
	Weight (KG)	35 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

Remark :
* 600W GPU SKU should be 0°C to 30 °C

All product specifications are subject to change without notice.

Dimensions

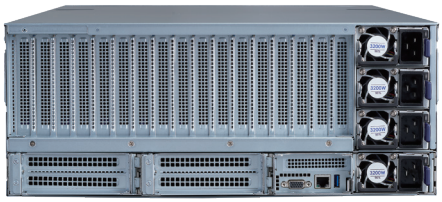
Unit: mm



Front View



Rear View



Ordering Information

PN	CPU	Memory	PCIe Cards	Storage	I/O	PSU
SKY-642E3-E8R96	Dual AMD EPYC 9004/9005, up to 128Cores	24 DDR5 6400 RDIMMs, up to 3TB total.	13 FHFL PCIe 5.0 x 16 (up to 8 Double-width GPU, max 600W/ea TDP) 1 HHHL PCIe 5.0 x 8	8 E1.S PCIe SSD 2 M.2 2280 NVME SSD	1 GbE RJ-45 Mgmt Port 2 USB3.0 (front) 1 USB3.0 (rear) 1 D-sub (front) 1 D-sub (rear)	Redundant 3+1 CRPS 3200W (total 9600W)

Packing List

Part no.	Description
1970006332N000	AMD EPYC 2U 400W SPU CPU Heatsink

Optional Accessories

Part no.	Description
1700021723-02	Power cord 3P 180 cm, USA
1700023533-01	Power cord 3P 180 cm, Europe
1700023534-01	Power cord 3P 180 cm, UK
1700009652	Power cord 3P 180 cm, China
1700035523-01	Power cable for GPU card
25D7000009S000	4U MGX Slide Rail