

SKY-821E3

Compact 2U High Performance Edge Server with dual AMD EPYC 9005/9004 Processors



Features

- Support all AMD EPYC 9005/9004 Series Processors up to 400W TDP
- 24x DDR5 RDIMM RDIMM
- Up to 4 FHFL, 2 FHHL and 2 Low Profile PCIe Gen5
- 2x 2.5" NVMe and 2x M.2 2280 NVMe SSD support
- 1x OCP 3.0 PCIe Gen5 x16 NIC support
- Support optional front bezel

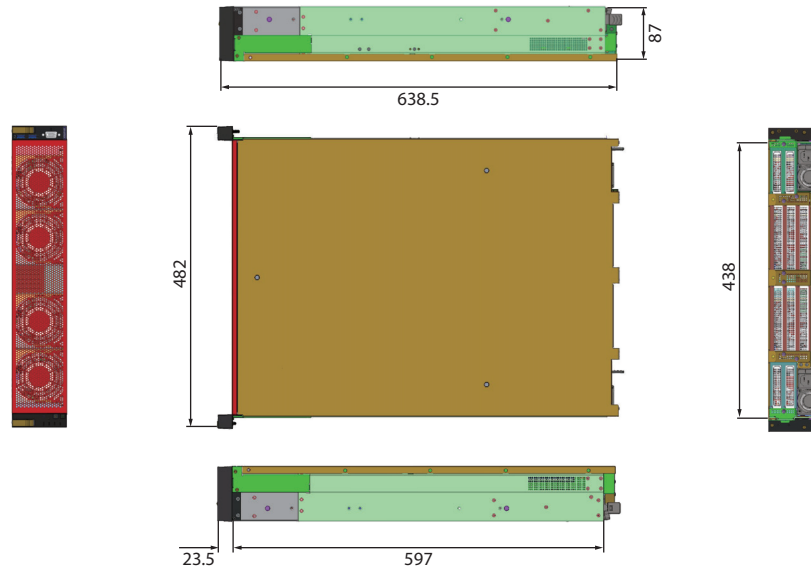


Specifications

System P/N	SKY-821E3-R12 or SKY-821E3-R20	
Processor	Family	AMD® EPYC™ Embedded 9005/9004 Series Processors
	Number	2
	Cores	Up to 160 cores per processor
	Max TDP	400W
Memory	Type	AMD EPYC 9005: up to 6000MT/s RDIMM AMD EPYC 9004: up to 4800MT/s RDIMM
	Slots	24
	Capacity	Up to 96GB RDIMM/slot Up to 256GB 3DS RDIMM/slot
Storage	2.5" HDD/SSD	2 (rear)
	M.2 SSD	2 (Default: NVMe, Option: SATA)
Expansion Slots	[SKU 1] 2 FHFL PCIe 5.0 x 16 2 FHFL PCIe 5.0 x 8 2 FHHL PCIe 5.0 x8 2 Low Profile PCIe 5.0 x8 (Optional) 2 Low Profile PCIe 5.0 x8	
	[SKU 2] 2 FHFL double-slots PCIe 5.0 x 16 2 FHHL PCIe 5.0 x8 2 Low Profile PCIe 5.0 x8 (Optional) 2 Low Profile PCIe 5.0 x8 1 OCP3.0 PCIe 5.0 x16	
I/O & Ports	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
	Video	1 D-sub (Front), 1 D-sub (Rear)
	Others	1 Serial console port (RJ-45)
Power Supplies	Type	CRPS
	Power Rating	1+1 Redundant 1200W / 2000W AC PSU
System Cooling	4x 8038 high performance fans	
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 9005/9004 Series Processors	24 DDR5 DIMM Slots	2 FHFL PCIe 5.0 x 16 2 FHFL PCIe 5.0 x 8 2 FHFL 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)	1+1 Redundant CRPS 1200W
SKY-821E3-R20	Dual socket, AMD EPYC 9005/9004 Series Processors	24 DDR5 DIMM Slots	2 FHFL PCIe 5.0 x 16 2 FHFL PCIe 5.0 x 8 2 FHFL 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)	1+1 Redundant CRPS 2000W

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