SKY-602E3

Compact Size Mid Tower GPU Server AMD® EPYC™ Embedded 8004 Series Processor



Features

- Processor: Single AMD® EPYC™ Embedded 8004 Series Server Processor
- Memory: 6 x DDR5-4800 MHz ECC RDIMM, up to 576GB
- Remote Management: IPMI function support
- Expansion: Supports 4 x PCIe x16 double-deck FH/10.5" cards or 2 x PCIe x16 double deck FH/10.5" cards + 4 x PCIe x8 single deck FH/10.5" cards
- PSU: 1200 Watt 1+0 power supply with 80+ platinum level certification

Specifications

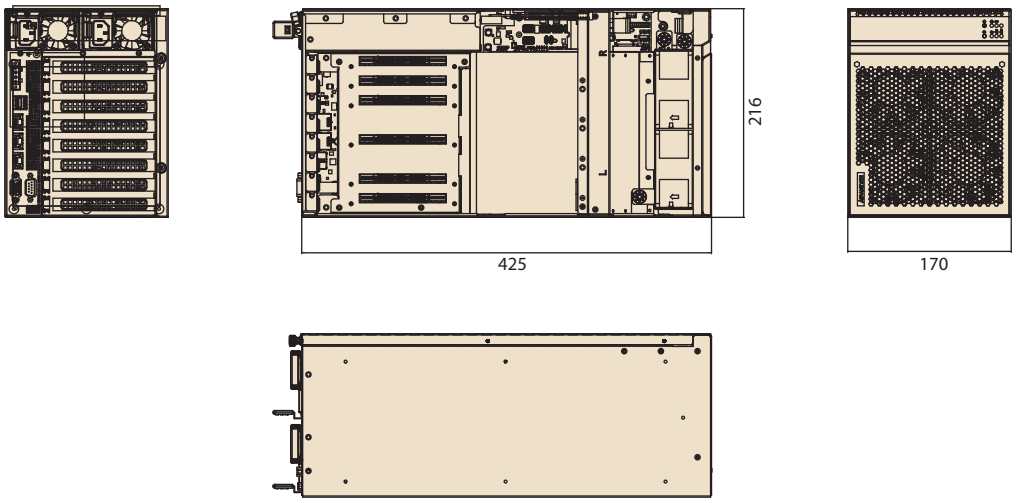
Processor System	CPU Technology	AMD LGA4844 with Zen4c support, up to 64 cores / 128 threads	
	CPU Type	Single Socket AMD® EPYC™ Embedded 8004 Series server processor, TDP max 225 W	
	Memory Type	6 x DDR5-4800MHz ECC RDIMM, up to 96GB per DIMM	
Graphics	Controller	Aspeed AST2600	
	VRAM	64 MB	
Expansion Slots	Slot 1	PCIe x16 slot (PCIe x8 link share from slot 2)	
	Slot 2	PCIe x16 slot (PCIe x16 link)	
	Slot 3	-	
	Slot 4	PCIe x16 slot (PCIe x16 link)	
	Slot 5	-	
	Slot 6	PCIe x16 slot (PCIe x16 link)	
	Slot 7	PCIe x16 slot (PCIe x8 link share from slot 8)	
	Slot 8	PCIe x16 slot (PCIe x16 link)	
Drive Bay	2.5" (Internal)	2	
	3.5" (Front)	-	
	3.5" (Internal)	-	
	M.2 (2280)	2	
Ethernet	Interface	2 x 10GbE	
	Controller	Intel X710-AT2 (dual 10GbE port)	
Front I/O Interface	USB	-	
Rear I/O Interface	USB	2 x USB3.2 Gen1	
	Power Connector	1 (Reserved power output for External storage node)	
	COM	1	
	Display	1 x VGA	
	RJ-45	3 (1 x dedicated NIC for IPMI)	
Internal Connector	USB 2.0 Pin Header	1 (single port)	
	COM	2 (One reserved for side-band signal)	
	LPC	-	
Watchdog Timer	Output	System reset	
	Interval	Programmable, 1~255 sec/min	
Power Supply	Power Output Wattage	80+ platinum 1+0 power supply 1200 W @ 100-240 V_{AC}	
	Input Range	AC 100 ~ 240 V	
Cooling	Chassis Fan	4 x 80 x 38 mm high speed fans (optional 1 x 120 x 25 mm fan)	
	Dust Filter	Yes	
Miscellaneous	LED Indicators	Power status, LAN status, information LED	
	Remote Management	Advantech Remote Monitoring Utility	
Environment		Operating	Non-Operating
	Temperature	0 ~ 40°C (32 ~ 104°F)	-40 ~ 60°C (-40 ~ 140°F)
	Humidity	95% @ 40°C	95% @ 60°C
	Vibration (5 ~ 500 Hz)	0.3 Grms	1.88 Grms
	Shock	10G (with 11ms duration, half since wave)	Optional
Physical Characteristics	Dimensions (W x H x D)	216 x 170 x 425 mm (8.5 x 6.69 x 16.73 in)	
	Package Dimensions (W x H x D)	380 x 340 x 570 mm (14.96 x 13.39 x 22.44 in)	
	Weight (N.W. / G.W.)	16 / 17.92 kg	
	Installation	Desktop / wall / rack mount	

All product specifications are subject to change without notice.

Last updated: 9-Dec-2025

Dimensions

Unit: mm



Ordering Information

Ordering PN	CPU	Memory	Storage	Network	IPMI	System FAN	CPU Thermal solution	Power Supply
SKY-602E3-S12A1	Single socket, AMD EPYC Embedded 8004 series Processor	6 x DDR5-4800, up to 576GB	2x M.2 2280 (SATA + PCIE) 2x 2.5" SATA SSD internal	2x 10G (X710)	Yes, Dedicate NIC	4x 8038 high performance fan	Standard 1U passive HS Note 2,3	1200W 1+0 single
SKY-602E3-S20A1						4x 8038 high performance fan	Standard 1U passive HS Note 2,3	2000W 1+0 single

Note 1: CPU TDP support up to 125W under 40C ambient condition
Note 2: CPU TDP support up to 180W under 40C ambient condition
Note 3: for higher CPU TDP support, please select 2U active cooler from optional accessory and limited to GPU support, please contact Advantech technical support.

System Contents

Item	Advantech P/N	Quantity
1U CPU Heatsink	1970005915N001 Note	1
10.5" GPU extension bracket (supports NVFF4.0 +)	-	4
Startup manual	2042602E00	1
Desktop mount foot stand	-	4

Note: 1U CPU HS supports different level of CPU TDP under different scenario, max support 180W, for higher CPU TDP, please option 2U cooler

Optional Accessories

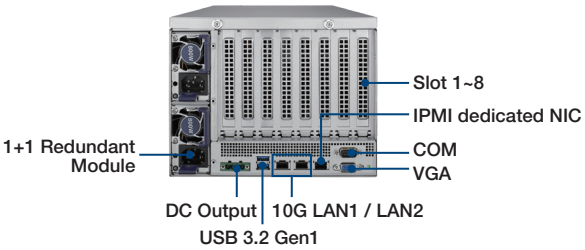
Item	Advantech P/N
Wall mount bracket	1960002043T000 (need to order 2 pcs as a set)
2U CPU cooler	1970005926N001
UL power core (125 V,15 A)	1700027928-01
BSMI power core (125 V,15 A)	1700027909-02
EU power core (250 V,10 A)	1702002605
1200W CRPS module Note 1	96PSRM-A1K2WCRPA
2000W CRPS module Note 1	96PSRM -A2KWCRPA
12V2x6 to 12V2x6 right angle type, up to 600W Note 2,3	1700035522-01
12V2x6 to 12V2x6 vertical type, up to 600W Note 2,3	1700035523-01

Note 1: please do NOT mix use different power wattage module in a system.
Note 2: to select different power level for GPU, please set correct DIP switch on PDB board.
Note 3:each power connector on PDB support max 600W, but system support up to 2x 600W or 4x350W GPU under 2000W configuration.

Front View



Rear View



Inside View

