SKY-8232DV2

Compact 2U Edge Server based on Dual 3rd Gen Intel® Xeon® Scalable Processors

Features

- 2U 20.7" depth rackmount server for 5G open RAN and edge computing
- Dual 3rd Gen Intel® Xeon® Scalable Processor supporting Platinum, Gold and Silver SKUs
- 32 x DIMM sockets DDR4 3200 MHz (ECC/RDIMM/LRDIMM)
- 4 x FH/FL PCIe 4.0 x16 + 2 x LP PCIe 4.0 x8 slots, or 2 x FH/FL PCIe 4.0 x16 slots + 2 x FH/FL PCIe 4.0 x8 slots + 2 x FH/HL PCIe 4.0 x8 slots + 2 x LP PCIe 4.0 x8 slots
- 4 x 2.5" SATA HDD/SSD drives or 2 x 2.5" SATA SSD + 2x NVMe U.2 SSD
- 2 x M.2 2280 SATA SSD
- IPMI 2.0 and Redfish compliant system management with reliability and security enhancements

CB UL CE FCC

Introduction

The Advantech SKY-8232DV2 is highly efficient, high performance, carrier-grade edge server designed to balance the best in x86 server-class processing with maximum I/O and offload density in a 20" depth chassis. The system is a cost effective, robust platform optimized for superior reliability in business and mission critical applications including but not limited to 5G vRAN and edge computing.

The SKY-8232DV2 is a dual socket high performance, highly reliable platform based on 3rd Gen Intel Xeon Scalable processors. It supports high density PCIe Gen4 card payload to integrate multiple 10/25/40/100GbE network interfaces and acceleration cards enabling high performance and low latency flexible configurations.

To deliver sustained processing performance in harsh edge environments, the SKY-8232DV2 supports extended operating temperature range, dust and humidity. Redundant power supplies, the ability to withstand single fan failures, redundant firmware images with failsafe updates and hot swappable FRUs minimize costly downtime, service interruptions and onsite interventions when deploying high computing power in remote network locations. The SKY-8232DV2 is designed for NEBS Level 3 carrier grade environments and where limited rack space is available.

All Advantech SKY-8000 servers manufactured by Advantech leverage a fully integrated value-chain from in-house design and self-owned factory to global logistics and local support ensuring a "no surprise" policy and keeping Advantech servers competitive.

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Specifications

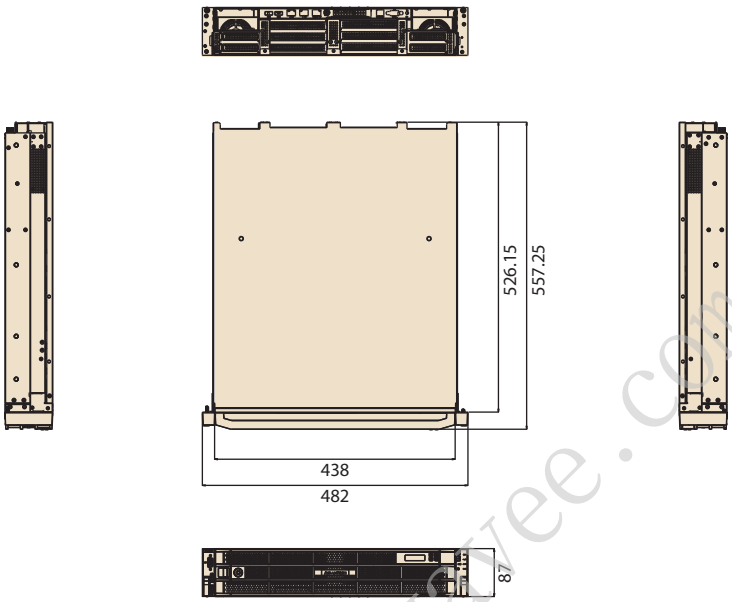
Processor System	CPU	Dual socket 3rd Generation Intel® Xeon® Scalable Processor up to 185W TDP	
	Chipset	Intel® PCH C62xA series	
Memory	Technology	Up to 32x 3200MHz DDR4 ECC RDIMM/LRDIMM	
	Max Capacity	Max capacity per channel: 64GB Max total capacity per system: 2048GB	
	Socket	288-pin DIMM	
PCIe	Expansion slot	1) 4x FH/FL PCIe 4.0 X16 + 2x LP PCIe 4.0 x8 2) 2x FH/FL PCIe 4.0 x16 slots + 2x FH/FL PCIe 4.0 x8 slots + 2x FH/HL PCIe 4.0 x8 slots+2x LP PCIe 4.0 x8	
I/O	Front I/O	1x USB3.0 (Upper port), 1x USB2.0 (lower port), VGA port ,PWR, Status, ALARM LEDs	
	Rear I/O	2 x GbE LAN RJ45, 1 x Management port,1 x VGA, 2 x USB3.0, 1 x Console port 1 x OCP3.0 (PCIe 4.0 x16) module slot	
Ethernet	Management Interface	10/100/1000 Mbps	
	Controller	GbE LAN: Intel i210-AT support	
	Connector	3 x RJ45	
Storage	Internal	2 x 2.5" SATA SSD	
	Rear (Internal)	2 x 2.5" SATA/PCIe SSD	
	On-board	2 x M.2 2280 SATA	
Power	Input	1200W AC CRPS module 100 ~ 240V_{AC}, 12~7A, 50~60HZ	
Environment		Operating	Non-operating
	Temperature	-5 ~ 55 °C (23 ~ 131 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
	Humidity	50% @25°C to 95%@40 °C (non condensing)	95% @60 °C (non-condensing)
Cooling	Chassis Fan	6 x 6056 high speed fans (N+1 redundant)	
	Thermal Control	Two separate thermal zones for motherboard and Full Length (FL) PCIe cards	
	Reliability	Resilient to single fan failure	
	Air Filter	Yes (Optional)	
System Management	IPMI	Aspeed AST2500 BMC with Advantech System Management Solution Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements Redfish API support iKVM and Support Advantech Web GUI style Node Manager Configurable shared or dedicated NIC support	
Physical	Dimension (W x D x H)	438 x 526 x 87 mm (17.24" x 20.7" x 3.48")	
	Weight (N.W)	~18kg	

All product specifications are subject to change without notice.

Last updated: 30-Jan-2024

Dimensions

Unit: mm [inch]



Front View

Rear View

Ordering Information

Part Number	Description
SKY-8232DV2-A000E	SKY-8232D Barebone Intel® C621A chipset, AC 1200W PSUs, 4 x 2.5" SATA SSD slots, 4 x FH/FL PCIE Gen4 x16 slots, 2 x LP PCIE Gen x8 slots, or 2x FH|FL PCIe 4.0 x16 slots + 2x FH|FL PCIe 4.0 x8 slots + 2x FH|HL PCIe 4.0 x8 slots+2x LP 4.0 x8 20.4" 2U server w/ 2x Intel® Xeon® CPU Sockets (FCLGA4189)

Peripherals

Part Number	Description
SKY-8232D-PSUACE	AC PSU for SKY-8232D – 1200W
1702002600-02	Power Cord 3P UL/CSA(USA) 125V 10A 1.83M 180D
1702002605-02	Power Cord 3P European 10A/16A 250V 1.83M 90D
1700000237-01	Power Cord 3P PSE 12A 125V 1.83M Japan

Packing List

Part Number	Description
968DE00026	Slide Rail for SKY-8232DV2
1970004565N001	2U Standard Passive CPU Heatsink

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