SKY-8232D

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

Features

- 2U 20.4" deep 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 DDR4 (ECC/RDIMM/LRDIMM)
- 4 x FH/FL PCIe x16 Gen4 +2 low profile 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 x8 slots
- 4 x 2.5" SATA HDD/SSD drives
- 2 x M.2 2280 SATA SSD
- IPMI 2.0 and Redfish compliant system management with reliability and security enhancements

Introduction

The SKY-8232D is designed and optimized to meet the high availability and for business-critical use cases. It is based on 3rd Gen Intel Xeon Scalable processors, which not only upgrades the total core counts per each consumed power watt, but also provides a high performance and highly reliable platform for network edge, virtualization applications, telecom, and 5G private mobile network infrastructure.

In the compute-intensive cloud or edge-computing use cases, increasing network performance, agility, and faster provisioning of applications and resources are essential. By pairing with multiple Network Interface Cards or Acceleration Cards (e.g. FPGA or GPU card), SKY-8232D offers a stable carrier-grade service of network and computing acceleration. Powered by 3rd Gen Intel Xeon Scalable processors and the highly flexible PCIE and IO expansion capability, SKY-8232D can also be applied in enterprise private network infrastructure, science calculation, and specific mission-critical application platform.

SKY-8232D is also designed to accommodate a wider range of temperature, dust, and humidity in order to deal with the application system running in any harsh environmental conditions. Redundant and field-replaceable PSU, Fan modules and Management firmware minimize costly downtime, service interruptions, and onsite interventions. The SKY-8232D is designed for NEBS Level 3 carrier grade environments and where limited rack space is available.

Specifications

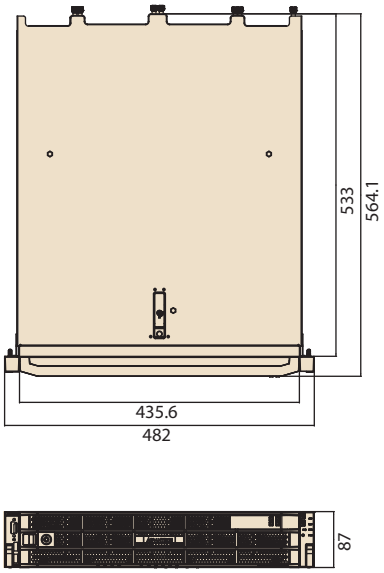
Processor System	CPU	Dual socket 3rd Generation Intel® Xeon® Scalable Processor up to 185W TDP	
	Chipset	Intel® PCH C62xA series	
Memory	Technology	Up to 32x 3200MHz DDR4 ECC Standard ECC RDIMM/LRDIMM	
	Max Capacity	Max capacity per DIMM: 64GB Max total capacity per system: 2048GB	
	Socket	32x 288-pin DIMM	
PCIe	Expansion slot	1) 4x FH/FL PCIe x16 Gen4+ 2x LP 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 4.0 x8	
IO	Front IO	1 x USB3.0 (upper port), 1 x USB2.0 (lower port), VGA port ,PWR, Status, ALARM LEDs	
	Rear IO	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 Gen4 x16) module slot	
Ethernet	Management Interface	10/100/1000 Mbps	
	10/25GbE Ethernet	Via OCP3.0 module	
	Controller	GbE LAN: Intel i210-AT support	
	Connector	2 x RJ-45	
Storage	SKY-8232D SKU	4 x 2.5" SATA SSD	
Power	Input	1200W AC/ 800W DC PSU (AC) 100 ~ 240V_{AC}, 12~7A, 50~60HZ, (DC) -40 ~ -60V_{DC}, 25.2~16.8A	
	Output Current Rating	AC: 1200W, Max: +12V/80.5A, +12Vsb/3A, per PSU DC: 800W, Max: +12V/65A, +12Vsb/2.1A, per PSU	
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 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)	436.6 x 533 x 87 mm (17.19" x 20.9" x 3.48")	
	Weight (N.W)	~18kg	

All product specifications are subject to change without notice.

Last updated: 15-Apr-2022

Dimensions

Unit: mm [inch]



Front View

Rear View

Ordering Information

Part Number	Description
SKY-8232DAS-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 20.4" 2U server w/ 2x Intel® Xeon® CPU Sockets (FCLGA4189)
SKY-8232DAS-D000E	SKY-8232D Barebone Intel® C621A chipset, DC 800W PSUs, 4 x 2.5" SATA SSD slots, 4 x FH/FL PCIE Gen4 x16 slots+ 2 x LP PCIE Gen4 x8 slots 20.4" 2U server w/ 2x Intel® Xeon® CPU Sockets (FCLGA4189)

Peripherals

Part Number	Description
SKY-8232D-SLRLE	Slide Rail set for SKY-8232D
SKY-8232D-PSUACE	AC PSU for SKY-8232D – 1200W
SKY-8232D-PSUDCE	DC PSU for SKY-8232D – 800W
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

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