

SKY-8134DU

1U High Performance Server based on 4th Gen Intel® Xeon® Processor Scalable Family



Features

- 1U 31" deep rackmount server
- Dual Intel® Xeon® Scalable Gold6, Gold5, Silver or Bronze processor
- 32 x DIMM sockets support up to 2048GB DDR5 4800/4400 MT/s
- PCIe5.0 add-in cards support up to two full-high 3/4 length (FH | 3/4L) PCIe x16 and one OCP3.0 PCIe x16
- Up to twelve NVMe or SATA3 SSDs
- Up to two NVMe or SATA3 2280 M.2 drives
- IPMI 2.0-compliant management with reliability and security enhancements

Introduction

The Advantech SKY-8134DU is a high-performance server that is designed to balance the best in x86 server-class processing with maximum storage, I/O, and offload density in a 1U 31" depth chassis. The system is not only a cost-effective, robust platform optimized for superior reliability in business-critical applications such as communications, edge and industrial high-performance computing, but also for high-density PCIe card payloads where maximum I/O connectivity is needed or the integration of industry-leading offload and acceleration technology is essential. The power and cooling options along with the streamlined mechanical design make it ideal for demanding applications requiring acceleration technologies such as GPU, DSP, and FPGA cards.

Architected around the new Intel® Xeon® Processor Scalable Family, which offers an unprecedented choice of performance levels from 8 to 32 cores each with the ruggedness, reliability, and long system lifecycles required by the industry. The system also features integrated security and compression offload based on Intel® QuickAssist technology and two onboard GbE ports with SR-IOV and RDMA support, making it an ideal choice for best-in-class integration in 1U form factor.

Specifically designed for applications requiring higher capacity, front loading, hot-swappable storage with RAID support. It accommodates up to twelve 2.5" removable drive bays at the front of the system, which support 2.5" NVMe drives each connected to a PCIe x4 Intel OCuLink bus, or SATA connectivity. The server is ideal for video caching and edge transcoding, data acquisition, storage and processing as well as accelerated edge processing and analytics. Another option of four 3.5" removable drive bays at the front of the system is also available.

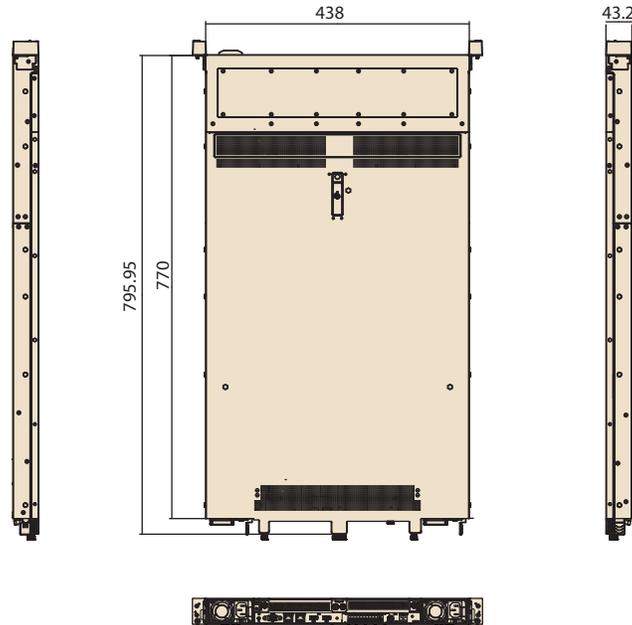
The SKY-8134DU meets a variety of acquisition, preprocessing and forwarding performance needs and can operate in environments with limited space, higher ambient temperature and lower low noise level constraints. It is designed to withstand extended environmental conditions in terms of shock, vibration and operating temperature. The server features redundant power supplies, the ability to withstand single fan failures, redundant firmware images with failsafe upgrades and hot swappable FRUs all make the SKY-8134DU the platform of choice for applications requiring zero downtime.

Specifications

Processor System	CPU	Dual 4th generation Intel Xeon Scalable processor up to 205W
	Chipset	Intel® Emmitsburg PCH chipset
	Technology	32x 4800MHz DDR5 RDIMM
Memory	Max Capacity	Max capacity per channel: 64GB Max total capacity per system: 2048GB
	Socket	32x 288-pin DIMM
	Expansion slot	2x full-high 3/4 length (FH 3/4L) PCIe x16 OCP3.0 PCIe x16
IO and LEDs	Front IO and LEDs	1x USB3.2 Gen1; Power button/LED; ID button/LED; Reset button; Status LED*
	Rear IO	ID button/LED; VGA; 2x USB3.2 Gen 1; RS-45 Console
Ethernet	Management Interface	NC-SI (BMC to I210-AT)
	10/25GbE Ethernet	Via Add-on PCIe card
	Controller	GbE LAN: Intel i210-AT support
Storage	Connector	2x GbE ports
		12x 2.5" hot-swappable SATA3/NVMe drive bay 2x M.2 2280 SATA3/NVME slot
Power Supply	Input	1200W 1+1 platinum redundant power supply with PMBus
Environment	Humidity Operational (non-condensing)	5% to 85%
	Operation Temperature	0 °C (32 °F) to 40 °C (104 °F)
	Storage Temperature	-40 °C (-40 °F) to 70 °C (158 °F)
Cooling	Chassis Fan	8x 4056 fan with SmartFan control
	Thermal Control	Three separate thermal zones for motherboard and PCIe cards
	Redundancy	Resilient to single fan failure

Dimensions

Unit: mm



Specifications (Cont.)

System Management	IPMI2.0 and Redfish API	<p>Aspeed AST2500 BMC with Advantech System Management Solution</p> <p>Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements</p> <p>iKVM Support Advantech Web GUI style Node Manager</p> <p>Configurable shared or dedicated NIC support</p> <p>Optional TPM 2.0</p> <p>Optional Secure Boot</p> <p>Chassis Intrusion Protection</p> <p>Cryptographically signed BMC firmware, optional signed BIOS firmware</p> <p>NIST.SP.800-193 Sustainable, see https://campaign.advantech.online/en/Cloud-IoT/software/pop_EnhancedSecurity.html</p>
Physical	<p>Dimensions (W x D x H)</p> <p>Weight</p>	<p>438.0 x 788.0 x 44.2 mm (17.2" x 31.0" x 1.7")</p> <p>20kg</p>

Front View



Rear View



Ordering Information

Part Number	Description
SKY-8134DU-12BA000	31" 2-socket 1U Server 4th/5th Generation Intel Xeon Scalable Processor, Intel C741, 12 x 2.5" drive bay supports SATA3 or NVMe drive, 2 x PCIe G5 x16 FH3/4L slot, 1 x OCP3.0 slot, AC 1200W 1+1 Power Supply

Optional Accessories

Part Number	Description
1700020095	Power cable 3P 180 cm, USA
1702002605	Power cable 3P 180 cm, Europe
1700000237	Power cable 3P 180 cm, JP
1700009652	Power cord 3P 180 cm, China