# SKY-8132S-11

#### **Ultra-short Depth 1U Edge Server based** on 3rd Gen Intel Xeon Scalable **Processor**



#### **Features**

- 1U 11" depth rackmount server for 5G Open RAN and edge computing
- Single 3rd Gen Intel® Xeon® Scalable Processor supporting Platinum, Gold and Silver SKUs
- 8x DIMM sockets for DDR4 3200MHz RDIMM
- 2x PCle Gen4 x16 FHIHL and 1x PCle Gen4 x16 LP slots
- 2x M.2 2280 SATA3/NVMe SSD
- Customizable Telecom Alarm Module
- IPMI 2.0 and Redfish compliant system management with reliability and security enhancements
- Up to -40 ~ 65 °C operating temperature range
- IP65 pole-mount or street side cabinet option















#### Introduction

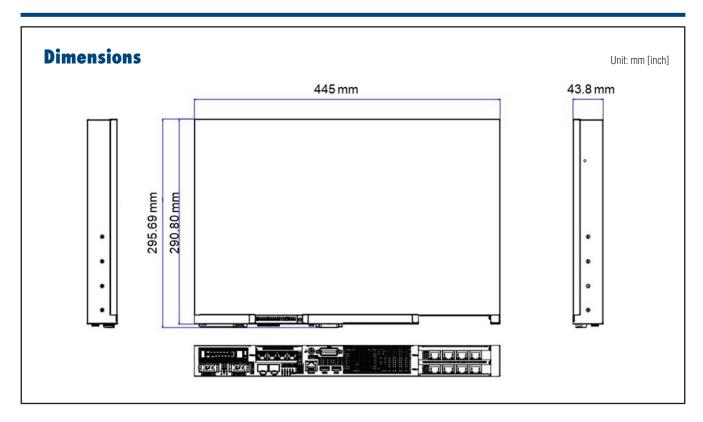
The Advantech SKY-8132S-11 is a highly efficient, carrier-grade edge server designed to balance best-in-class Intel Xeon Scalable processing with maximum I/O and offload density in an 11" ultra-short depth chassis. The system is a power optimized, robust platform that provides superior reliability in critical applications including, but not limited to 5G Open RAN and multi-access edge computing (MEC). The power and cooling options along with the streamlined mechanical design make it ideal for demanding telco edge deployments requiring high performance acceleration such as the Intel ACC100.

Architected around 3rd Gen Intel Xeon Scalable processors, the single-socket SKY-8132S-11 combines cutting-edge performance with the ruggedness, reliability, and long system lifecycles required by the industry. The SKY-8132S has been optimized for the 5G intelligent edge to integrate the required vRAN acceleration, I/O and time synchronization technology while optimizing performance per watt. This becomes essential to support compute-intensive 5G NR outdoor macrocell vDU use cases and advanced massive MIMO antenna systems.

The SKY-8132S-11 supports extreme wide range operating temperature and environmental shock, vibration and dust conditions. Redundant DC power supplies, the ability to withstand single fan failures, redundant BIOS and firmware images with failsafe remote updates and hot swappable FRUs make the SKY-8132S-11 the platform of choice for applications requiring virtually zero downtime. The SKY-8132S-11 is designed for NEBS Level 3 carrier grade environments where limited space is available including front accessible network and power interfaces and IP65 pole mount, roadside unit or streetside cabinet configurations.

### **Specifications**

Processor System	CPU	Single socket 3rd Generation Intel® Xeon® Scalable Pr	ocessor up to 36 cores, 225W TDP	
	Chipset	Intel PCH C62xA series		
Memory	Technology	Up to 8x 3200MHz DDR4 RDIMM/LRDIMM with ECC		
	Max Capacity	Max capacity per channel: 64GB		
	' '	Max total capacity per system: 512GB		
	Socket	8 x 288-pin DDR4 DIMM		
PCIe  IO and LEDs	Expansion slot	Front 2x PCIe 4.0x16 (FH HL)		
		Front 1x PCIe 4.0x16 (LP)	GE fiber ports (1 x management port), 2 x USB3.0 ports, and Telco	
	Front IO and LEDs	alarm interface	t de liber ports (1 x management port), 2 x 05b3.0 ports, and feico	
	Rear IO	None		
Ethernet	Management Interface	NC-SI (BMC to I210-IS)		
	10/25GbE Ethernet	Via Add-on PCle card		
	Controller	GbE LAN: Intel i210-IS support		
	Connector	2 x SFP ports		
01		2 x SATA3/PCIe M.2 2280 module		
Storage		1x 2.5" SATA3/NVMe U.2 SSD (depends on SKU)		
Power	1+1 redundant DC input feeds (A and B @-38V <sub>DC</sub> ~ -72V <sub>DC</sub> )		2V <sub>DC</sub> )	
	Input	800W D/D power brick		
		Optional field replaceable 1+1 DC power supply units		
Environment		Operating	Non-operating	
	Temperature	-40~65°C (-40~149°F)	-40 ~ 70°C (-40 ~ 158°F)	
	· ·	Depends on CPU model and configuration	,	
	Humidity Chassis Fan	50% @25°C to 95%@40°C (non condensing) 9 x High Speed Fans	95% @60°C (non-condensing)	
Cooling	Thermal Control	Two separate thermal zones, one for payload and the other for power input, controlled by Advantech BMC solution		
	Redundancy	Resilient to single fan failure (depends on CPU model and configuration)		
	Air Filter	ODM customizable		
	All Filler		nagement Colution	
System Management		<ul> <li>Aspeed AST2500 BMC with Advantech System Management Solution</li> <li>Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements</li> </ul>		
	IPMI2.0 and Redfish API  Redfish API support  Redfish API support			
	II WIE.O dila ricalion / II I	<ul> <li>iKVM Support Advantech Web GUI style Node Mar</li> </ul>	ager	
		Configurable shared or dedicated NIC support		
Physical	445 x 291 x 43.8mm (17.5" x 11.5" x 1.72")			
	Dimensions (W x D x H)	Or, 445 x 331.5 x 43.8mm (17.5" x 13.1" x 1.72") with advanced heatsink to meet 65°C operating temperature for 185W TDP		
		CPU (designed to fit 300mm depth racks)		
	Net Weight	Approximately 8kg		



## **Front View**



# **Ordering Information**

Part Number	Description
SKY-8132S11-S000	11" 1U server, single 3rd Gen Xeon® Scalable Processor, redundant DC power inputs, 1x hotswappable SATA/NVMe 2.5" SSD, 2x SATA/NVMe M.2 storage modules, 2xFH/HL and 1x LP PCle Gen4 slots, standard system heatsink
SKY-8132S11-D000	Same configuration as above with an additional redundant field replaceable DC power supply unit (2.5" SSD removed)
SKY-8132S11-S001	13" 1U server, single 3" Gen Xeon® Scalable Processor, redundant DC power inputs, 1x hotswappable SATA/NVMe 2.5" SSD, 2x SATA/NVMe M.2 storage modules, 2xFH/HL and 1x LP PCle Gen4 slots, advanced system heatsink
SKY-8132S11-D001	Same configuration as above with an additional redundant field replaceable DC power supply unit (2.5" SSD removed)

## **Rear View**



## **Optional Accessories**

Part Number	Description
To be defined	Intel Ethernet Network Adapter E810-XXVDA4T Quad Port SFP28 with IEEE 1588 PTP, SyncE and optional GNSS
1700033056-01	2 meter long DC power cable (for A+B redundant power feeds)
SKY-ACC100-P3IMBM	Silicom ACC100 FEC Accelerator card (mfg. p/n P3iMB-M-P2)