SKY-8200

2U Carrier Grade Server based on Dual Intel® Xeon® E5-2600 v3 v4 Series Processors

Preliminary

Features

- Dual Intel® Xeon® E5-2600 v3 v4 Processors
- 16 DIMM sockets support up to 1024 GB DDR4 1600/1866/2133 MHz SDRAM (ECC/REG/RDIMM)
- Support 4 FH/FL PCIe x8 Gen3 slots, 2 FH/HL PCIe Gen3 x8 slots, 1 low profile PCIe x 8 Gen 3 slot
- Support 4 x 2.5" hot-swappable SAS/SATA HDD/SSD drives
- Telco Alarm Module support & IPMI 2.0-compliant remote management
- Carrier Grade and Optimized I/O versions
- Best-in-class compute for applications requiring high density offload and I/O in a carrier grade design
- Shortened development time with integrated services including rich portfolio of qualified PCIe adapters plus customization & branding options

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Introduction

The Advantech SKY-8200 is a highly configurable carrier-grade server designed to balance the best in x86 server-class processing performance with maximum I/O and offload density in a 20" depth chassis. The system is a cost effective, highly available platform optimized to meet next-generation networking equipment needs. It is specifically designed for high density PCIe card payloads where maximum port count is needed or the integration of industry leading offload and acceleration technology is essential. The PCIe I/O is balanced between CPU sockets for optimum throughput. The power and cooling options along with the streamlined mechanical design make it ideal for Digital Signal Processing (DSP) payloads for video encoding/decoding, transcoding and transrating applications.

SKY-8200 system variant caters for higher power and cooling requirements when NEBS certification is not mandatory. Architected around two Intel® Xeon® E5 v3 or v4 Series processors, the SKY-8200 combines cutting-edge performance with the ruggedness, reliability, and long system lifecycles required by networking equipment providers. The system supports dual Intel® Xeon® E5-2600 v3 processors (105W E5-2658v3, 75W E5-2648Lv3 and E5-2628Lv3) and DDR4 memory up to 1024GB with 16 DIMM sockets. The system provides hot-swappable and redundant 1400W(AC) &1200W(DC) power supply modules, 3 sets of hot-swappable fans, 4 hot-swappable hard disk drives connected to LSI 3008 SAS controller, and 6 PCIe expansion slots.
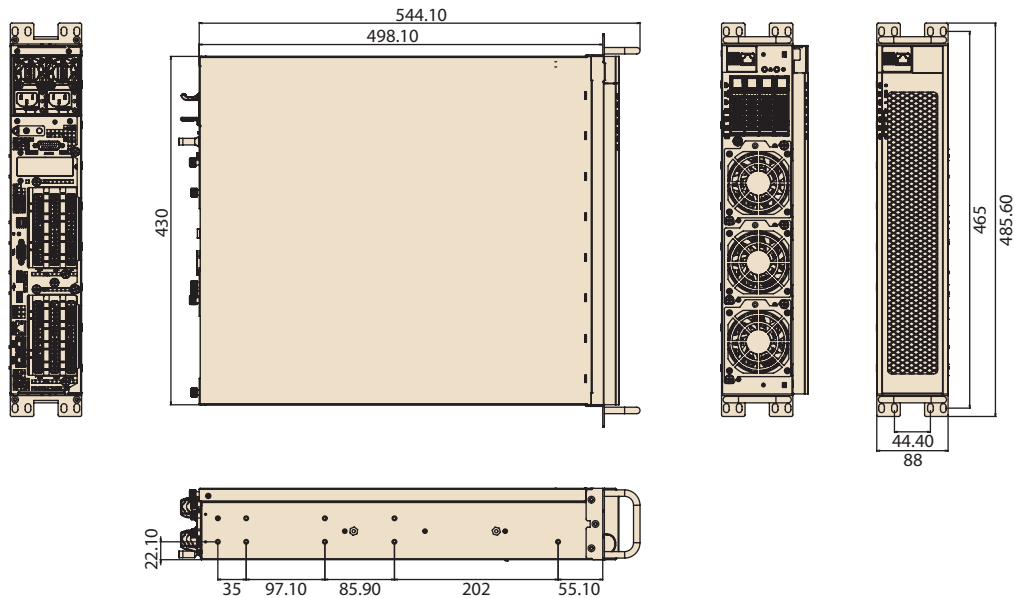
The SKY-8200 is designed for NEBS Level 3 carrier grade environments and where limited rack space is available. Interoperability testing is performed with a wide selection of third-party PCIe card vendors.

Specifications

Processor System	CPU	Dual Intel® Xeon® Processor E5-2600 v3 v4 Supports: Non-NEBS: E5-2690v3, E5-2680v3, E5-2670v3, E5-2660v3, andE5-2650v3 NEBS: E5-2658v3, E5-2648Lv3, E5-2628Lv3, E5-2618Lv3, E5-2608Lv3 E5-2628LV4 30MB 12C 1.9GHz, E5-2648Lv4 35MB 14C 1.8GHz, E5-2650v4 30MB 12C 2.2GHz, E5-2658v4 35MB 14C 2.3GHz, E5-2680v4 35MB 14C 2.4GHz.
	Chipset	Intel® Cave Creek 8900 & Coleto Creek 8925 chipset
Memory	Technology	16 x DDR4 DIMMs, ECC/REG memory, 1600/1866/2133 MHz, Supports 1.2V memory model
	Capacity	1024 GB/ 64 GB per DIMM
	Socket	16 x 288-pin DIMM
PCIe	Expansion slot	Total 4 x PCIe x8 (FH/FL), 2 x PCIe x8 (FH/HL), & 1 x Advantech expansion slots for Advantech LAN card
IO	Front Mgmt IO	1 x PWR button, 1 x ID button, 1 x RJ45-type console, 2 x USB, LEDs
	Rear Mgmt IO	1 x RJ45-type console, 1 x DB15 for TAM (Optional), 2 x USB, 2 x GbE Mgmt ports, 1 x VGA, and 1 x external mini SAS port
Ethernet	Management Interface	10/100/1000 Mbps
	Controller	GbE LAN1: Intel i210-AT, GbE LAN2: Intel i210-AT
	Connector	RJ-45 x 2
Storage		4 x 2.5", hot-swappable, SAS/SATA HDD/SSD trays in front, 2 x mSATA
Power Supply	Watt	1400W AC/DC PSU
	Input	(AC) 100-240V_{AC}, 12-10A, 50-60Hz (DC) -36--72V_{DC}, 40-25A
Environment	Humidity Operational (non-condensing)	5% to 85%
	Operational Temperature	-5°C (23°F) to 55°C (131°F)
	Storage Temperature	-40°C (-40°F) to 70°C (158°F)
Cooling	Chassis Fan	6 * 80 x 38 high speed fan
	Air Filter	Yes
System Management	IPMI	Aspeed AST2400 iBMC + AMI MegaRAC firmware Supports IPMI 2.0 Supports iKVM Dedicated NIC via NC-SI on management LAN ports
Physical	Dimension (W x D x H)	430 x 508 x 88.6 mm (16.9" x 20" x 3.48")
	Weight (N.W)	17kg

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Dimensions

Unit: mm [inch]

544.10
498.10
430
465
485.60
44.40
88
22.10
35   97.10   85.90   202   55.10

Front View

Rear View

Ordering Information

Part Number	Description
SKY-8200AN-0000E	2U HPS w NAMB-6010 E5-2600v3v4/8925/TPM/B/B/AC/x8
SKY-8200AN-0001E	2U HPS w NAMB-6010 E5-2600v3v4/8925/TPM/B/B/DC/x8
SKY-8200BN-0000E	2U HPS w NAMB-6010 E5-2600v3v4/8900/TPM/B/B/AC/x8
SKY-8200BN-0001E	2U HPS w NAMB-6010 E5-2600v3v4/8900/TPM/B/B/DC/x8

Optional Accessories

Part Number	Description
1700020095	Military Power Cord UL 3P 15A 125V 1.83M 14AWG
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	Qty
9680017059	20" slide rail (pair)	1
1700012372-11	Console cable	1
1700024872-11	Power cord Cable 2*3P-5.0 180cm for SKY-8200(for DC version only)	2
1960062167N001	Heatsink I-Core i7-2600-S-95W 106X70X25-SS	2

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