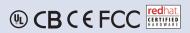
# SKY-8201

### Compact 2U Carrier Grade, High Performance Server based on Intel® Xeon® Processor Scalable Family



#### **Features**

- 2U 20" deep rackmount server
- Dual Intel® Xeon® Platinum, Gold, Silver or Bronze Processor (Up to 165W TDP)
- 16x DIMM sockets support up to 1024GB DDR4 2666 / 2933 MHz DDR4 (ECC/RDIMM/LRDIMM)
- Rich Add-In Card Support: Up to four FH/FL PCle x8 Gen3 slots, two FH/HL PCle x8 Gen3 slots (Optional: four FH/FL PCle x16 Gen3 slots), plus two LP PCle x8 Gen3 slot or Advantech Personalization card
- Up to 4x 2.5" hot-swappable HDD/SSD drives
- 1x M.2 2280 SATA SSD
- IPMI 2.0-compliant management with reliability and security enhancements
- Intel Select Solutions for NFVi Gen2 certified



#### Introduction

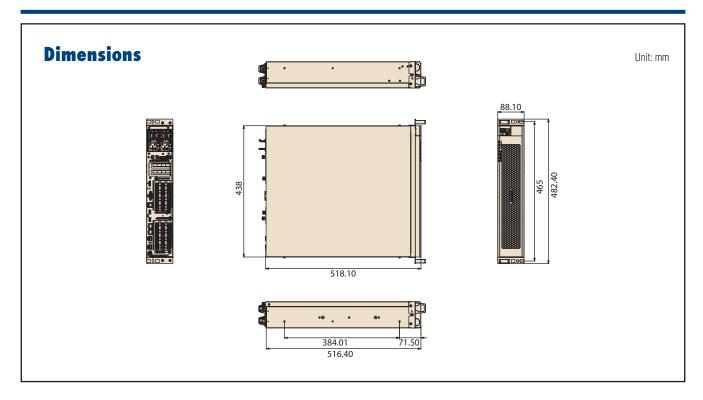
The Advantech SKY-8201 is a highly configurable high performance server designed to balance the best in x86 server-class processing with maximum I/O and offload density in a 20" depth chassis. The system is a cost effective, robust platform optimized for superior reliability in business critical applications including, but not limited to, communications, edge and industrial high performance computing. It is specifically designed for high density PCIe card payloads where maximum IO 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 high performance acceleration technologies such as DSP and FPGA cards.

Architected around the new Intel® Xeon® Processor Scalable Family, the Dual-Socket SKY-8201 combines cutting-edge performance with the ruggedness, reliability, and long system lifecycles required by the industry. With integrated security and compression offload based on Intel® QuickAssist technology and two onboard 10GbE ports with SR-IOV and RDMA support, the system offers best-in-class integration in a compact 2U, 20" deep form factor.

The SKY-8201 is designed to withstand extended environmental conditions in terms of shock, vibration and operating temperature. A replaceable front air filter is supported to cope with dust. Redundant power supplies, the ability to withstand single fan failures, redundant firmware images with failsafe upgrades and hot swappable FRUs make the SKY-8201 the platform of choice for applications requiring zero downtime. The SKY-8201 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 PCle card vendors.

## **Specifications**

Daniel Contrar	CPU	Dual CPU from the New Intel® Xeon® Processor Scalable Family up to 28 cores, 165W	
Processor System	Chipset	Intel® C622 chipset (optional variants with C625, C626, C627, and C628)	
	Technology	Up to 16x 2666/2933MHz DDR4 ECC Standard ECC RDIMM/LRDIMM	
Technical	0,	Max capacity per channel: 64GB	
Technology	Max Capacity	Max total capacity per system: 1024GB	
	Socket	16x 288-pin DIMM	
PCIe	Expansion slot	Total 4 x rear PCIe x8 (FH/FL), and 2 x rear PCIe x8 (FH/HL) or 2 x rear PCIe x16 (FH/FL), plus 2 x rear PCIe x8 (LP) or 2 x rear PCIe x8 expansion slot for Advantech Personalization card	
1 016			
10	Front IO	2 x USB2.0, PWR, ID Button, Status LEDs	
10	Rear IO	2 x GbE LAN RJ45(Management ports), 1 x Display port, 1 x VGA, 2 x USB3.0/2.0, 2 x 10GE SFP+	
	Management Interface	10/100/1000 Mbps	
	10GbE Ethernet Interface	1Gbps / 10Gbps	
Ethernet	Controller	GbE LAN1: Intel i210-AT, GbE LAN2: Intel i210-AT	
		10GbE SFP+ LAN1/2: Integrated into PCH, with SR-IOV and RDMA support	
-	Connector	2 x RJ-45, 2 x SFP+	
Storage	SKY-8201 SKU	4 x2.5" HDD/SSD	
	Innet	1400W AC/DC PSU	
Power	Input	(AC) 100-240V <sub>AC</sub> , 12-10A, 50-60Hz (DC) -3672V <sub>DC</sub> , 40-25A	
	Output Current Rating	1200W, Max: +12V/70A, +5Vsb/3A, per PSU	
	Output Guirent Hatting	Operating Non-operating	
		5 up to 55 °C (23 131 °E)	
Environment	Temperature	Depends on CPU model and configuration -40 ~ 70 °C (-40 ~ 158 °F)	
	Humidity	50% @ 25 °C to 95% @ 40 °C (non condensing) 95% @ 60 °C (non-condensing)	
	Chassis Fan	6 x 80 x 38 high speed fan	
0 "	Thermal Control	Two separate thermal zones for motherboard and Full Length (FL) PCle cards	
Cooling	Reliability	Resilient to single fan failure	
	Air Filter	Yes (optional)	
		Aspeed AST2500 BMC	
System Management	IPMI	Advanced Lights Out Management compliant to IPMI2.0 with security & availability enhancements	
System Management	II IVII	iKVM Support Advantech Web GUI style node manager	
		Configurable shared or dedicated NIC support	
Physical	Dimension (W x D x H)	430 x 508 x 88.6 mm (16.9" x 20" x 3.48")	
111,0.00.	Weight (N.W)	~17kg	



#### **Front View**



# **Ordering Information**

Part Number	Description	
SKY-8201SAS-0000E	20" 2U server w Dual Intel® Xeon® Processor, Intel® C622 chipset, AC 1400W PSU, 4x 2.5" HDD/ SSD slot, 4 x FH/FL slots, 2 x FH/HL slots, 2 x LP slots	
SKY-8201SAS-0001E	20" 2U server w Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor, Intel <sup>®</sup> C622 chipset, DC 1400W PSU, 4x 2.5" HDD/ SSD slot, 4 x FH/FL slots, 2 x FH/HL slots, 2 x LP slots	
SKY-8201SAS-0016E	20" 2U server w Dual Intel <sup>®</sup> Xeon <sup>®</sup> Processor, Intel <sup>®</sup> C622 chipset, AC 1400W PSU, 4x 2.5" HDD/ SSD slots, 4 x FH/FL PCle x16 slots, 2 x LP slots	

# **Advantech Pers Card Options**

Part Number	Description
PCIE-1220PS-00A1E	Dual 10GbE X710 w. 2x SFP+
PCIE-1221PS-00A1E	Dual 10GBASE-T w. X550
PCIE-1130PS-00A1E	Quad GbE i350 w. 4x RJ45
PCIE-1131PS-00A1E	Quad GbE i350 w. 4x SFP

### **Rear View**



# **Packing List**

Part Number	Description	Qty
9680016959	22" Rail Kit for 438mm chassis	1
1700012372-11	Console cable	1
1700024872-11	Power cord Cable 2*3P-5.0 180cm for SKY-8201(for DC version only)	2

# **Optional Accessories**

Part Number	Description
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
1702031801	Power Code 3P (UK) 5A-Fuse 183cm
1700000237-01	Power Cord 3P PSE 12A 125V 1.83M Japan