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Servers, Server Boards and Chassis

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SKY Servers Overview



Extending the Cloud to the IoT Edge

Advantech SKY Servers are highly configurable platforms designed to maximize compute and storage performance in highly virtualized telecom, industrial, and enterprise hybrid cloud environments.



GPU Servers

Advantech SKY-6000 series are high-density GPU AI training platforms designed to meet the growing trend toward big data and analysis. Powered by dual Intel® Xeon® scalable processors, supporting up to 10 NVIDIA® GPUs. High-density GPU design maximizes the acceleration of highly parallel applications like artificial intelligence (AI), smart cities, medical technology, high performance computing (HPC), and more.

Main Features

- High density GPU card support
- Thermal & acoustic management
- Remote management

Edge Accelerator Servers

Advantech Edge Accelerator Servers are specially designed for Edge AI applications. They offer space efficiency and short-depth design and use high-performance server board technology. They also offer PCIe expansion slots for GPU Cards, NIC, and Accelerator Cards and are suitable for edge AI applications such as factory automation, machine vision, security inspection, medical imaging and much more.

Main Features

- Enrich expansion slots (GPU, AI accelerate)
- Space efficiency with short-depth design
- Remote management



Industrial Server Chassis

Advantech industrial server chassis give equipment developers high performance, efficient, and redundant solutions for industrial environments and critical applications. This product line provides customers with a total solution and value-added services rather than just a regular server product.

Main Features

- High-availability and redundancy
- Industrial-grade design
- Product life cycle management



Storage Server and Multi-node Servers

Storage server provide extreme computing performance, maximum PCIe configuration and variety of storage options. Multi-node server delivers the highest performance and efficiency in a 2U 4-node design — creating the flexibility to deploy independent workloads on a shared chassis resource that significantly lowers the total cost of ownership.

Main Features

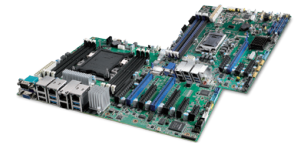
- Highly serviceability and availability
- Maximum computing power and PCIe configuration

Industrial Server Boards

Advantech industrial server boards are based on Intel® Xeon® and Intelligent Platform Management Interface (IPMI) technology, which are ideal for industrial performance-demanding applications such as AOI, vision inspection, video transcoding, and SCADA applications. They accelerate deployment, ease management, and enhance virtualization to facilitate cloud computing.

Main Features

- Industrial-grade design
- Interoperable and optimized I/O
- High network bandwidth



Network Appliances 1

Servers, Server Boards and Chassis 2

Network Interface & Acceleration Cards 3

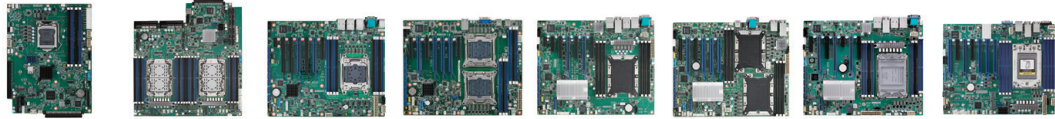
GPU Solutions 4

Video Infrastructure Solutions 5

Server Boards



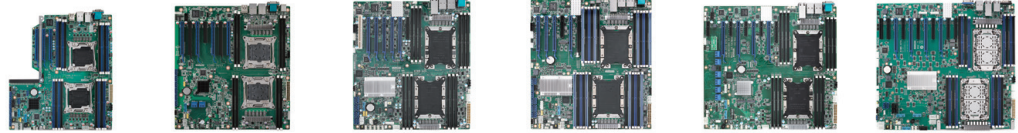
Model Name		ASMB-260	ASMB-585	ASMB-785	ASMB-586	ASMB-786	ASMB-587	ASMB-787
Form Factor		Mini-ITX	Micro ATX	ATX	MicroATX	ATX	MicroATX	ATX
Processor System	CPU	Intel® Atom® C3000 Series	Intel® Xeon® E3 v5/v6 and 6th/7th Gen Core™ i3/i5/i7 Series	Intel® Xeon® E3 v5/v6 and 6th/7th Gen Core™ i3/i5/i7 Series	Intel® Xeon® E & 8th/9th Gen Core™ i3/i5/i7 Series	Intel® Xeon® E & 8th/9th Gen Core™ i3/i5/i7 Series	Intel® Xeon® W and 10th Gen Core™ i9/i7/i5/i3 series	Intel® Xeon® W and 10th Gen Core™ i9/i7/i5/i3 series
	Socket	-	1 x socket LGA 1151	1 x socket LGA 1151	1 x socket LGA 1151	1 x socket LGA 1151	1 x socket LGA 1200	1 x socket LGA 1200
	Max. Speed	2.2 GHz	3.9 GHz	3.9 GHz	3.7 GHz	3.7 GHz	3.7 GHz	3.7 GHz
	L3 Cache	2MB (Based on CPU sku)	8MB	8MB	13.5MB	13.5MB	20MB	20MB
	Chipset	-	Intel® C236	Intel® C236	Intel® C246	Intel® C246	Intel® W480E	Intel® W480E
	BIOS	AMI 128 Mbit, SPI	AMI 128Mbit, SPI	AMI 128Mbit, SPI	AMI 256Mbit, SPI	AMI 256Mbit, SPI	AMI 128Mbit, SPI	AMI 256Mbit, SPI
Expansion Slots	PCI	-	-	3	-	-	-	2
	PCIe x16	-	1 (Gen3 x16 link)	1 (switchable to two x8)	1 (Gen3 x16 link)	1 (switchable to two x8)	1 (Gen3 x16 link)	1 (switchable to two x8)
	PCIe x8	-	-	2 (switchable to one x16)	-	2 (switchable to one x16)	-	2 (switchable to one x16)
	PCIe x4	1 (1 Gen3 x4 link)	3 (2 Gen3 x4 link, 1 Gen3 x1 link)	2	2	2	2	2
	PCIe x1	-	-	-	1	3	-	1
	M.2	-	-	-	-	-	1 x M.2 22110/2280 (PCIe/SATA)	1 x M.2 2280/2242 (PCIe/SATA)
Memory	Technology	DDR4 Reg/ unbuffered 2400/ 2133/1866/ 1600 Mhz DIMM	DDR4 ECC/ non-ECC Unbuffer 1600/ 1866/2133/ 2400 MHz	DDR4 ECC/ non-ECC Unbuffer 1600/ 1866/2133/ 2400 MHz	DDR4 ECC/ non-ECC Unbuffer 2133/2400/ 2666 MHz	DDR4 ECC/ non-ECC Unbuffer 2133/2400/ 2666 MHz	DDR4 ECC/ non-ECC Unbuffer 2400/2666 2933 MHz	DDR4 ECC/ non-ECC Unbuffer 2400/2666 2933 MHz
	Max. Capacity	128 GB for RDIMM/ 64 GB for UDIMM	64 GB	64 GB	64 GB	64 GB	128 GB	128 GB
	Socket	4 x 288-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM	4 x 288-pin DIMM
Graphics	Controller	AST2500	Intel® GT2-HD Graphics	Intel® GT2-HD Graphics	Intel® GT2-HD Graphics	Intel® GT2-HD Graphics	Intel® GT2-HD Graphics	Intel® GT2-HD Graphics
	VRAM	DDR3 64MB	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory installed	1 GB maximum shared memory with 2 GB and above system memory installed
Ethernet	Interface	Gigabit & 10GBase-T Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet
	Controller	2 x Intel® I210AT 1 x Intel® X557-AT2	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)	1 x Intel® I219LM 3 x Intel® I210AT (G4 SKU)
	Connector	RJ-45 x 3 (1 shared with IPMI)	RJ-45 x 4 (G4 SKU)	RJ-45 x 4 (G4 SKU)	RJ-45 x 4 (G4 SKU)	RJ-45 x 4 (G4 SKU)	RJ-45 x 4 (G4 SKU)	RJ-45 x 4 (G4 SKU)
TPM		Optional	Optional	Optional	Optional	Optional	Optional	Optional
SATA	Max. Data Transfer Rate	600MB/s	600 MB/s	600 MB/s	600 MB/s	600 MB/s	600MB/s	600MB/s
	Channels	Up to 8	7	6	8	8	5	5
Rear I/O	VGA/DVI/HDMI/DP	1 / - / - / -	1 / 2 / - / -	1 / 2 / - / -	1 / 1 / 1 / -	1 / 1 / 1 / -	1 / 1 / 1 / -	1 / 1 / 1 / -
	Ethernet	3	4 (G4 SKU)	4 (G4 SKU)	4 (G4 SKU)	4 (G4 SKU)	4 (G4 SKU)	4 (G4 SKU)
	USB	2 x USB 3.2 Gen1	4 x USB 3.2 Gen1	4 x USB 3.2 Gen1	4 x USB 3.2 Gen2	4 x USB 3.2 Gen2	4 x USB 3.2 Gen2	4 x USB 3.2 Gen2
	Audio	-	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
	Serial	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232 via cable)	1 (RS-232 via cable)	1 (RS-232 via cable)	1 (RS-232 via cable)
Onboard I/O	USB	2 x USB 3.2 Gen1	2 x USB 3.2 Gen1 6 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen1 6 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen1 6 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen1 6 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen1 6 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen1 6 x USB 2.0 1 x USB 2.0 Type A
	Audio	-	1	1	1	1	1	1
	Serial	1	6	6	1	1	1	1
	Parallel	-	-	1	-	1	-	1
	SATA	8	7	6	8	8	5	5
Watchdog Timer	Output	System reset	System reset	System reset	System reset	System reset	System reset	System reset
	Interval	Programmable, 1~255 sec	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min	Programmable, 1~255 sec/min



- Network Appliances **1**
- Servers, Server Boards and Chassis **2**
- Network Interface & Acceleration Cards **3**
- GPU Solutions **4**
- Video Infrastructure Solutions **5**

Model Name		ASMB-610	ASMB-622	ASMB-813	ASMB-823	ASMB-815	ASMB-825	ASMB-816	ASMB-830
Form Factor		Proprietary	Proprietary	ATX	ATX	ATX	ATX	ATX	ATX
Processor System	CPU	Intel® Xeon® W & 10th Gen Core™ i9/i7/i5/i3 processors	Intel® Xeon® 3rd Gen Scalable Series	Intel® Xeon® E5-1600 v3/v4 and 2600 v3/v4 Series	Intel® Xeon® E5-2600 v3/v4 Series	Intel® Xeon® Scalable/2nd Gen Scalable Series	Intel® Xeon® Scalable/2nd Gen Scalable Series	Intel® Xeon® 3rd Gen Scalable Series	AMD EPYC™ 7003 Series
	Socket	1 x socket LGA 1200	2 x socket LGA 4189-P+	1 x socket LGA 2011-R3	2 x socket LGA 2011-R3	1 x socket LGA 3647-P0	2 x socket LGA 3647-P0	1 x socket LGA 4189-P+	1 x socket LGA 4094
	Max. Speed	3.5 GHz	3.6 GHz	3.7 GHz	3.5 GHz	3.6 GHz	3.6 GHz	3.6 GHz	3.6 GHz
	Front Side Bus	–	UPI 11.2 GT/s	QPI 9.6GT/s	QPI 9.6GT/s	UPI 10.4 GT/s	UPI 10.4 GT/s	UPI 11.2 GT/s	–
	L3 Cache	20MB	42MB	30MB	30MB	38.5MB	38.5MB	42MB	Max 256MB
	Chipset	W480E	Intel® C621A	Intel® C612	Intel® C612	Intel® C620	Intel® C620	Intel® C621A	N/A
BIOS		AMI 256 Mbit, SPI	AMI 256 Mbit, SPI	AMI 128 Mbit, SPI	AMI 128 Mbit, SPI	AMI 256 Mbit, SPI	AMI 256 Mbit, SPI	AMI 256 Mbit, SPI	AMI 256 Mbit, SPI
Expansion Slots	PCIe x16	1 (switchable to two x8)	4	2 (switchable to four x8)	4	2 (switchable to four x8)	4	3	5
	PCIe x8	–	4	1	2	1	2	1	2
	PCIe x4	2	–	1	1 (x8 slots with x4 link)	1	–	2	–
	PCIe x1	–	–	1	–	1	–	1	–
	M.2	1 x M.2 2280	1 x M.2 2280	–	–	1 x M.2 2280 (PCIe/SATA)	1 x M.2 2280 (PCIe/SATA)	1 x M.2 2280/22110 (PCIe/ SATA)	2 x M.2 2280/22110 1 x (PCIe/SATA) 1 x (PCIe only)
Memory	Technology	DDR4 ECC/ non-ECC Unbuffer 2400/ 2666/2933 MHz	DDR4 3200/2933/ 2666 MHz RDIMM, Intel Optane DCPMM	DDR4 REG 2400/2133/ 1866/1600 MHz DIMM	DDR4 REG 2400/2133/ 1866/1600 MHz DIMM	DDR4 2933/2666/ 2400/2133 MHz RDIMM, Intel Optane DCPMM	DDR4 2933/2666/ 2400/2133 MHz RDIMM, Intel Optane DCPMM	DDR4 3200/2933/ 2666 MHz RDIMM, Intel Optane DCPMM	DDR4 3200/ 2933/2666 MHz RDIMM
	Max. Capacity	128 GB	1 TB REG DIMM	256 GB REG DIMM	192 GB REG DIMM	768 GB REG DIMM	768 GB REG DIMM	1 TB REG DIMM	2TB REG DIMM
	Socket	4 x 288-pin DIMM	16 x 288-pin DIMM	8 x 288-pin DIMM	6 x 288-pin DIMM	6 x 288-pin DIMM	6 x 288-pin DIMM	8 x 288-pin DIMM	8 x 288-pin DIMM
Graphics	Controller	AST 2600	AST2510/ AST2500	AST1400/ AST2400	AST1400/ AST2400	AST2510/ AST2500	AST2510/ AST2500	AST2510/ AST2500	AST2500
	VRAM	DDR4 4Gb	DDR4 4Gb	DDR3 64MB	DDR3 64MB	DDR4 4Gb	DDR4 4Gb	DDR4 4Gb	DDR4 4Gb
Ethernet	Interface	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit Ethernet	Gigabit & 10GBase-T Ethernet	Gigabit & 10GBase-T Ethernet	Gigabit & 10GBase-T Ethernet	Gigabit & 10GBase-T Ethernet
	Controller	1 x Intel® I350AM4	1 x Intel® I350AM4	2 x Intel® I210AT	2 x Intel® I210AT	2 x Intel® I210AT 1 x Intel® X557-AT2 1 x Realtek 8201EL	2 x Intel® I210AT 1 x Intel® X557-AT2	2 x Intel® I210AT 1 x Intel® X550-AT2 1 x Realtek 8201F	2 x Intel® I210AT 1 x Intel® X550-AT2 1 x Realtek 8201F
	Connector	RJ-45 x 5 (1 dedicated for IPMI)	RJ-45 x 5 (1 dedicated for IPMI)	RJ-45 x 3 (1 dedicated for IPMI)	RJ-45 x 3 (1 shared with IPMI)	RJ-45 x 5 (1 dedicated for IPMI)	RJ-45 x 4 (1 shared with IPMI)	RJ-45 x 5 (1 dedicated for IPMI)	RJ-45 x 5 (1 dedicated for IPMI)
TPM		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
SATA	Max. Data Transfer Rate	600 MB/s	600 MB/s	600 MB/s	600 MB/s	600 MB/s	600 MB/s	600 MB/s	600 MB/s
	Channel	3	4	8	9	9	9	8	9
Rear I/O	VGA/DVI/ HDMI/DP	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -
	Ethernet	4	4	2	2	4 (T2 SKU)	4 (T2 SKU)	4 (T2 SKU)	4 (T2 SKU)
	USB	2 x USB 3.2 Gen1 1 x USB 3.2 Gen2 Type A	2 x USB 3.2 Gen1 1 x USB 3.0 Gen1 Type A	4 x USB 3.2 Gen1 2 x USB 2.0 Type A	4 x USB 3.2 Gen2 1 x USB 2.0 Type A	4 x USB 3.2 Gen1 2 x USB 2.0 Type A	2 x USB 3.2 Gen1 4 x USB 2.0 Type A	2 x USB 3.2 Gen1 4 x USB 2.0 Type A	2 x USB 3.2 Gen1 1 x USB 3.2 Gen1 Type A
	Serial	1 (RS-232)	1 (RS-232)	1 (RS-232)	–	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)
	PS/2	–	–	2	–	–	–	–	–
Onboard I/O	USB	2 x USB 3.2 Gen1 1 x USB 3.2 Gen2 Type A	2 x USB 3.2 Gen1 1 x USB 3.0 Gen1 Type A	2 x USB 3.2 Gen1 2 x USB 2.0 Type A	2 x USB 3.2 Gen1 2 x USB 2.0 Type A	2 x USB 3.2 Gen1 4 x USB 2.0 Type A	4 x USB 3.2 Gen1 4 x USB 2.0 Type A	2 x USB 3.2 Gen1 4 x USB 2.0 Type A	2 x USB 3.2 Gen1 1 x USB 3.2 Gen1 Type A
	Audio	–	–	1	1	1	1	1	–
	Serial	1	1	1	1	1	1	1	1
	SATA	3	4 (in 1 x SFF-8643)	8	9	8	8	8	9
Watchdog Timer	Output	System reset	System reset	System reset	System reset	System reset	System reset	System reset	System reset
	Interval	Programmable, 1 ~ 255 sec/ min	Programmable, 1 ~ 255 sec/ min	Programmable, 1 ~ 255 sec/ min	Programmable, 1 ~ 255 sec/ min	Programmable, 1 ~ 255 sec/ min	Programmable, 1 ~ 255 sec/ min	Programmable, 1 ~ 255 sec/ min	Programmable, 1 ~ 255 sec/ min

Server Boards



Model Name		ASMB-913	ASMB-923	ASMB-925	ASMB-935	ASMB-975	ASMB-976
Form Factor		EATX	EATX	EATX	EATX	Proprietary	Proprietary
Processor System	CPU	Intel® Xeon® E5-2600 v3/v4 Series	Intel® Xeon® E5-2600 v3/v4 Series	Intel® Xeon® Scalable/2nd Gen Scalable Series	Intel® Xeon® Scalable/2nd Gen Scalable Series	Intel® Xeon® Scalable/2nd Gen Scalable Series	Intel® Xeon® 3rd Gen Scalable Series
	Socket	2 x socket LGA 2011-R3	2 x socket LGA 2011-R3	2 x socket LGA 3647-P0	2 x socket LGA 3647-P0	2 x socket LGA 3647-P0	2 x socket LGA 4189-P+
	Max. Speed	3.5 GHz	3.5 GHz	3.6 GHz	3.6 GHz	3.6 GHz	3.7 GHz
	Front Side Bus	QPI 9.6GT/s	QPI 9.6GT/s	UPI 10.4 GT/s	UPI 10.4 GT/s	UPI 10.4 GT/s	UPI 11.2 GT/s
	L3 Cache	30 MB	30 MB	38.5 MB	38.5 MB	38.5 MB	42MB
	Chipset	Intel® C612	Intel® C612	Intel® C620	Intel® C620	Intel® C620	Intel® C621A
	BIOS	AMI 128 Mbit, SPI	AMI 128 Mbit, SPI	AMI 256 Mbit, SPI	AMI 256 Mbit, SPI	AMI 256 Mbit, SPI	AMI SPI 256 Mbit
Expansion Slots	PCI	-	-	1	-	-	-
	PCIe x 16	4 (1 for PME)	4	5	5	4	4
	PCIe x 8	-	2	1	1	1	7
	PCIe x 4	-	1	-	-	4	-
	M.2	-	-	-	1 x M.2 2280 (PCIe/SATA)	2 x M.2 2242 (SATA)	1 x M.2 2280 (PCIe/SATA) 1 x M.2 2280 (PCIe)
Memory	Technology	DDR4 REG 2400/2133/1866/1600/1333 MHz DIMM	DDR4 REG 2400/2133/1866/1600/1333 MHz DIMM	DDR4 2933/2666/2400/2133 MHz RDIMM, Intel Optane DCPMM	DDR4 2933/2666/2400/2133 MHz RDIMM, Intel Optane DCPMM	DDR4 2933/2666/2400/2133 MHz RDIMM, Intel Optane DCPMM	DDR4 3200/2933/2666 MHz RDIMM, Intel Optane DCPMM
	Max. Capacity	512 GB REG DIMM	256 GB REG DIMM	1.5 TB REG DIMM	3 TB REG DIMM	1.5 TB REG DIMM	2 TB REG DIMM
	Socket	16 x 288-pin DIMM	8 x 288-pin DIMM	12 x 288-pin DIMM	24 x 288-pin DIMM	12 x 288-pin DIMM	16 x 288-pin DIMM
Graphics	Controller	AST1400/AST2400	AST1400/AST2400	AST2510/AST2500	AST2510/AST2500	AST2510/AST2500	AST2510/AST2500
	VRAM	DDR3 64MB	DDR3 64MB	DDR4 4Gb	DDR4 4Gb	DDR4 4Gb	DDR4 4Gb
Ethernet	Interface	Gigabit Ethernet	Gigabit Ethernet	Gigabit & 10GBase-T Ethernet	Gigabit & 10GBase-T Ethernet	Gigabit & 10GBase-T Ethernet	Gigabit & 10GBase-T Ethernet
	Controller	4 x Intel® I210AT	2 x Intel® I210AT	2 x Intel® I210AT 1 x Intel® X557-AT2	2 x Intel® I210AT 1 x Intel® X557-AT2	2 x Intel® I210AT 1 x Intel® X557-AT2	2 x Intel® I210AT 1 x Intel® X550-AT2
	Connector	RJ-45 x 4 (1 shared with IPMI)	RJ-45 x 3 (1 dedicated for IPMI)	RJ-45 x 4 (1 shared with IPMI)	RJ-45 x 4 (1 shared with IPMI)	RJ-45 x 4 (1 shared with IPMI)	RJ-45 x 5 1 x Realtek 8201F (1 dedicated for IPMI)
TPM		Optional	Optional	Optional	Optional	Optional	Optional
SATA	Max. Data Transfer Rate	600 MB/s	600 MB/s	600 MB/s	600 MB/s	600 MB/s	600 MB/s
	Channel	8	10	8	10	14	10
Rear I/O	VGA/DVI/HDMI/DP	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -	1 / - / - / -
	Ethernet	4	2	4 (T2 SKU)	4 (T2 SKU)	4 (T2 SKU)	4 (T2 SKU)
	USB	2 x USB 3.2 Gen1	2 x USB 3.2 Gen1 2 x USB 2.0	4 x USB 3.2 Gen1	4 x USB 3.2 Gen1	4 x USB 3.2 Gen1	2 x USB 3.2 Gen1
	Serial	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)	1 (RS-232)
	PS/2	-	2	-	-	-	-
Onboard I/O	USB	2 x USB 3.2 Gen1 2 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen1 2 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen1 4 x USB 2.0 1 x USB 2.0 Type A	2 x USB 3.2 Gen1 2 x USB 2.0 1 x USB 2.0 Type A	4 x USB 3.2 Gen1 2 x USB 2.0 1 x USB 2.0 Type A	4 x USB 3.2 Gen1 2 x USB 3.2 1 x USB 2.0 Type A
	Audio	1	1	1	1	1	1
	Serial	1	1	1	1	1	1
	SATA	8	10	8	10	12	10
Watchdog Timer	Output	System reset	System reset	System reset	System reset	System reset	System reset
	Interval	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min	Programmable, 1 ~ 255 sec/min

Server Chassis



Height (1U = 1.75")		Tower		
Model Name		HPC-2040	HPC-5000	HPC-7000
Form Factor Support		Mini ITX	Micro ATX	Micro ATX, ATX, EATX
No. of slots / No. of full-height cards		1/0	4/2 (11.73" Length)	7/6
Drive Bay	Slim ODD Bay	1	1	1
	5.25" (front-accessible)	-	-	-
	3.5" (hot-swappable)	4 (3.5" / 2.5")	-	-
	3.5" (internal)	-	2 x 3.5" or 1 x 3.5" + 1 x 2.5"	3 (External)
	2.5" (hot-swappable)	-	-	-
	2.5" (internal)	1	-	-
Cooling	Chassis Fan	1 (12cm / 57.2CFM)	1 (12cm / 82CFM)	2 (12cm/150CFM)
	Air Filter	-	Yes	-
Front I/O	USB 3.0	2	2	2
Interface	USB 2.0	-	2	-
Power Supply	Single Power Supply	250W	300W/500W	500W/1200W
	Redundant Power Supply	-	-	-
Miscellaneous	LED Indicators	System: Power, HDD, LAN1, LAN2, System Information	System: Power	System: Power
	Rear Panel	One DB-9 ports openings	Two DB-9 ports openings	Two USB ports openings
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 122 °F)	0 ~ 40 °C (32 ~ 122 °F)	0 ~ 40 °C (32 ~ 122 °F)
	Non-Operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
	Operating Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing
	Non-operating Humidity	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
Physical Characteristics	Dimensions (W x H x D)	210 x 230 x 275 mm (8.3" x 9.1" x 10.8")	192 x 376.7 x 338.5 mm (7.56" x 14.83" x 13.33")	267.1 x 458 x 500 mm (10.52" x 18.03" x 19.69")

Network Appliances 1

Servers, Server Boards and Chassis 2

Network Interface & Acceleration Cards 3

GPU Solutions 4

Video Infrastructure Solutions 5

Server Chassis



Height (1U = 1.75")		1U			2U		
Model Name		HPC-6120	HPC-7120S	HPC-7140	HPC-6240	HPC-7242	HPC-7282
Form Factor Support		Proprietary	Micro ATX, ATX	Micro ATX, ATX	Proprietary	Micro ATX, ATX	Micro ATX, ATX
No. of slots / No. of full-height cards		4/2	1/1	1/1	8/8	3/3	7/0
Drive Bay	Slim ODD Bay	-	-	1	1 (Ultra Slim)	1	1
	5.25" (front-accessible)	-	-	-	-	-	-
	3.5" (hot-swappable)	-	-	4 (3.5" / 2.5")	-	4 (3.5" / 2.5")	8
	3.5" (internal)	-	-	-	-	-	2
	2.5" (hot-swappable)	2	2 (HPC-7120S-35ZXE only)	-	4	-	Optional
	2.5" (internal)	-	2	-	-	2	-
Cooling	Chassis Fan	3 (4cm/34CFM) 2 (4cm/28CFM)	3 (4 cm/23.1 CFM)	4 (4cm / 23 CFM)	3 (8cm/ 132CFM) 1 (6cm/ 75CFM)	1 (8 cm/47CFM) 2 (6 cm/28CFM)	3 (8cm / 52.6 CFM)
	Air Filter	-	-	-	-	Yes	-
Front I/O	USB 3.0	2	2	-	2	2	-
	USB 2.0	-	-	2	-	-	2
Power Supply	Single Power Supply	500W/650W	350W/850W	350W/500W	1200W	350W/500W	500W/850W
	Redundant Power Supply	650W (Optional)	-	-	1200W	550W	550W/800W
Miscellaneous	LED Indicators	System: Power, Information, LAN1, LAN2, LAN3, LAN4 HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System Information. HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System Information. HDD Tray: HDD Power and Activity LED	System: Power, Information, LAN1, LAN2, LAN3, LAN4 HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, temperature, fan. HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System Information. HDD Tray: HDD Power and Activity LED
	Rear Panel	-	-	-	-	Two DB-9 ports openings	-
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)
	Non-Operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
	Operating Humidity	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing	10 ~ 85% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing
	Non-operating Humidity	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
Physical Characteristics	Dimensions (W x H x D)	438 x 44 x 480 mm (17.24" x 1.73" x 18.9")	438 x 43 x 381 mm (17.24" x 1.7" x 15")	437 x 43 x 504mm (17.2" x 1.7" x 19.85")	438 x 88 x 523 mm (17.24" x 3.46" x 20.59")	426.4 x 88 x 525 mm (16.79" x 3.46" x 20.67")	437 x 88.9 x 533.4 mm (17.2" x 3.5" x 21")



Height (1U = 1.75")		3U/Tower	4U			
Model Name		HPC-7320	HPC-7420	HPC-7442	HPC-7484	HPC-7485
Form Factor Support		Micro ATX, ATX, EATX	ATX, EATX, EE-ATX	Micro ATX, ATX, EATX	Micro ATX, ATX, EATX	ATX, EATX, EE-ATX
No. of slots / No. of full-height cards		7/6	11/11	7/7	7/7	11/11
Drive Bay	Slim ODD Bay	1	1	1	1	1
	5.25" (front-accessible)	-	-	-	-	-
	3.5" (hot-swappable)	2 (3.5" / 2.5")	-	4 can upgrade to 8 (3.5" / 2.5")	8 (3.5" / 2.5")	8 (3.5" / 2.5")
	3.5" (internal)	2	2	1	-	-
	2.5" (hot-swappable)	-	2 (Optional)	-	-	-
	2.5" (internal)	-	2 (Optional)	-	1	2
Cooling	Chassis Fan	2 (8cm/57CFM) 1 (6cm/27.72CFM)	3 (12cm /238 CFM) for HPC-7420-12ZX 3 (8cm /57 CFM) for HPC-7420-85ZX	1 (12cm /114 CFM) 1 (8cm/55 CFM)	2 (12cm /150.33 CFM)	3 (12cm /238 CFM) for HPC-7485-20RX 3 (12cm /232 CFM) for HPC-7485-12RX
	Air Filter	Yes	Yes	Yes	Yes	-
Front I/O	USB 3.0	2	-	2	2	2
	USB 2.0	-	-	-	-	-
Power Supply	Single Power Supply	500W/850W	850W/1200W	500W/700W	700W/1200W	-
	Redundant Power Supply	550W/800W	1200W (Optional)	500W	-	1200W/2000W
Miscellaneous	LED Indicators	System: Power, HDD, LAN1, LAN2 HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System Information HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, temperature, fan. HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System Information HDD Tray: HDD Power and Activity LED	System: Power, HDD, LAN1, LAN2, System Information HDD Tray: HDD Power and Activity LED
	Rear Panel	Two DB-9 ports openings	LED panel and two USB openings	Five DB-9 ports and one 68-pin SCSI openings	Five DB-9 ports and one 68-pin SCSI openings	Two DB-9 ports, two PS/2 and two USB openings
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 50 °C (32 ~ 122 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)
	Non-Operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
	"Operating Humidity"	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing	10 ~ 95% @ 40 °C, non-condensing
	Non-operating Humidity	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing	10 ~ 95% @ 60 °C, non-condensing
Physical Characteristics	Dimensions (W x H x D)	426.4 x 132.2 x 480 mm (16.79" x 5.2" x 18.9")	438 x 177 x 450mm (17.24" x 6.97" x 17.7")	426 x 177 x 600 mm (16.7" x 7.0" x 23.6")	426 x 177 x 630mm (16.7" x 7.0" x 24.8")	435 x 176 x 660mm (17.1" x 6.9" x 25.9")

Server Chassis



Height (1U = 1.75")		1U		2U		3U	4U	
Model Name		HPC-8104	HPC-8108	HPC-8208	HPC-8212	HPC-8224	HPC-8316	HPC-8424
Form Factor Support		Micro ATX, ATX	ATX, EATX	ATX, EATX	Micro ATX, ATX, EATX	ATX, EATX	Micro ATX, ATX	ATX, EATX
No. of slots / No. of full-height cards		1/0	1/0	7/0, 3/3	7/0, 3/3 (1 for Raid Card)	7/0, 3/3 (1 for Raid Card)	7/7 (1 for Raid Card)	7/7 (1 for Raid Card)
Drive Bay	Slim ODD Bay	1 (Ultra Slim)	1	1	-	-	-	-
	5.25" (front-accessible)	-	-	-	-	-	-	-
	3.5" (hot-swappable)	4 x SAS3/SATA	-	8 x SAS3/SATA	12 x SAS3/SATA	-	16 x SAS3/SATA	24 x SAS3/SATA
	3.5" (internal)	-	-	-	-	-	-	-
	2.5" (hot-swappable)	-	8 x SAS3 or SATA	-	2 (Rear) only HPC-8212SE-R6A1E	24 x SAS3/SATA	2 (Rear)	2 (Rear)
	2.5" (internal)	2 or 3 (Optional)	-	2	-	-	-	-
	NVMe Support	-	-	-	4 in 12 Hot-Swappable Drive Bays	4 in 24 Hot-Swappable Drive Bays	-	4 in 24 Hot-Swappable Drive Bays
Cooling	Chassis Fan	4 (4cm)	4 (4cm)	3 (8cm)	4 (8cm)	4 (8cm)	4 (8cm)	4 (8cm)
	Air Filter	-	-	-	-	-	-	-
Front I/O Interface	USB 3.0	2	-	2	-	-	2	-
	USB 2.0	-	1	-	2	2	-	2
Power Supply	Single Power Supply	500W	800W	850W	-	-	-	-
	Redundant Power Supply	650W	650W	550W, 800W	550W, 650W, 800W	800W	550W	800W
Miscellaneous	LED Indicators	LAN1, LAN2,HDD, Power and Information LED	LAN1, LAN2,HDD, Power and Information LED	LAN1, LAN2,HDD, Power and Information LED	LAN1, LAN2,HDD, Power and Information LED	LAN1, LAN2,HDD, Power and Information LED	LAN1, LAN2,HDD, Power and Information LED	LAN1, LAN2,HDD, Power and Information LED
	Rear Panel	-	-	-	-	-	-	-
Environment	Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 35 °C (32 ~ 95 °F)
	Non-Operating Temperature	-40 ~ 60 °C (-40 ~ 140 °F)	-40 ~ 60 °C (-40 ~ 140 °F)	-40 ~ 60 °C (-40 ~ 140 °F)	-40 ~ 60 °C (-40 ~ 140 °F)	-40 ~ 60 °C (-40 ~ 140 °F)	-40 ~ 60 °C (-40 ~ 140 °F)	-40 ~ 60 °C (-40 ~ 140 °F)
	Operating Humidity	10 ~ 95% @ 40 °C non-condensing	10 ~ 95% @ 35 °C non-condensing	10 ~ 95% @ 40 °C non-condensing	10 ~ 95% @ 35 °C non-condensing	10 ~ 95% @ 35 °C non-condensing	10 ~ 95% @ 35 °C non-condensing	10 ~ 95% @ 35 °C non-condensing
	Non-operating Humidity	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing	10 ~ 95% @ 60 °C non-condensing
Physical Characteristics	Dimensions (W x H x D)	438 x 43.9 x 530mm (17.24" x 1.73" x 20.9")	438 x 43.9 x 597mm (17.24" x 1.73" x 23.5")	438 x 88 x 620mm (17.25" x 3.46" x 24.4")	438 x 88.4 x 540mm (17.24" x 3.48" x 21.26") 438 x 88.4 x 620mm (17.24" x 3.48" x 24.41")	438 x 88.4 x 620mm (17.24" x 3.48" x 24.41")	435 x 132 x 540mm (17.13" x 5.2" x 21.26")	438 x 176 x 620mm (17.24" x 6.93" x 24.41")

Edge Accelerator Servers



Network Appliances 1

Servers, Server Boards and Chassis 2

Network Interface & Acceleration Cards 3

GPU Solutions 4

Video Infrastructure Solutions 5

	1U	2U	4U
Specification	<ul style="list-style-type: none"> HPC-6120 ASMB-610 	<ul style="list-style-type: none"> HPC-6240 ASMB-622 	<ul style="list-style-type: none"> HPC-7420 ASMB-976
Key Applications	Edge Computing AOI +AI	Edge Computing Traffic Management +AI	Edge Computing Warehouse Management +AI
Features	<ul style="list-style-type: none"> 18" short-depth with 4 FH PCIe expansion slots Support double-deck GPU Card with active Fan 2 x 2.5" Hot-swap SAS/SATA/SSD drive bay Unify front bezel support 	<ul style="list-style-type: none"> 20" short-depth with 8 FH PCIe expansion slots Support two double-deck GPU Card with active Fan 4 x 2.5" Hot-swap SAS/SATA/SSD drive bay Unify front bezel support 	<ul style="list-style-type: none"> Front Access Design, 17" short-depth with 11 FH PCIe expansion slots Support two double-deck GPU Card with active Fan 2 x 3.5" SATA drive, 2 x 2.5" SAS/SATA/SSD Hot-swap drive bay in option -
Processor Support	Single Intel® Xeon® W & 10th Gen Core™ i9/i7/i5/i3 processors (Comet Lake), TDP up to 95W	Dual Intel® Xeon® Scalable/3rd Gen Scalable Family Processor (Ice Lake) with UPI up to 11.2 GT/s, TDP up to 165W	Dual Intel® Xeon® Scalable/3rd Gen Scalable Family Processor (Ice Lake) with UPI up to 11.2 GT/s, TDP up to 165W
Serverboard	ASMB-610	ASMB-622	ASMB-976
Chipset	Intel® W480E chipset	Intel® C621 chipset	Intel® C621 chipset
System Memory (Max.)	4 DIMM slots, Up to 128GB ECC/non-ECC UDIMM, Up to 2933 MHz	16 DIMM slots, Up to 1TB RDIMM, Up to 3200 MHz, Intel Optane DCPMM support	16 DIMM slots, Up to 2TB RDIMM/LRDIMM, Up to 3200 MHz, Intel Optane DCPMM support
Expansion Slots	<ul style="list-style-type: none"> 1 FH PCIe Gen3 x 16 or 2 FH PCIe Gen3 x8 (10.5"L) 2 FH/HL PCIe Gen3 x4 	<ul style="list-style-type: none"> 4 FH PCIe Gen4 x16 (10.5"L) 3 FH/HL PCIe Gen4 x8 1 FH/HL PCIe Gen3 x8 slot with 4 signal 	<ul style="list-style-type: none"> 4 FH/FL PCIe Gen4 x16 7 FH/FL PCIe Gen4 x8
Connectivity (Front)	<ul style="list-style-type: none"> 2 x USB3.2 Gen1 LEDs: power, information, LAN1~ LAN4 	<ul style="list-style-type: none"> 2 x USB3.2 Gen1 LEDs: power, information, LAN1~ LAN4 	<ul style="list-style-type: none"> 2 x Gigabit Ethernet RJ-45 2 x 10GBase-T RJ-45 (in T2 version) 1 x dedicated IPMI RJ-45 2 x USB3.0 1 x VGA 1 x COM LEDs: HDD, power, information, LAN1, LAN2
Connectivity (Rear)	<ul style="list-style-type: none"> 4 x Gigabit Ethernet RJ-45 1 x dedicated IPMI RJ-45 2 x USB3.2 Gen2 1 x VGA 1 x COM 	<ul style="list-style-type: none"> 4 x Gigabit Ethernet RJ-45 1 x dedicated IPMI RJ-45 2 x USB3.2 Gen1 1 x VGA 1 x COM 	-
Management Controller	Aspeed AST2600 BMC	Aspeed AST2500 BMC	Aspeed AST2500 BMC
Management	1 RJ-45 supports IPMI function with dedicated NIC	1 RJ-45 supports IPMI function with dedicated NIC	1 RJ-45 supports IPMI function with dedicated NIC
Peripheral Bays	<ul style="list-style-type: none"> 4 x hot-swap 2.5" SATA/SAS 6Gb drive bays 1 x M.2 2280/2242 (PCIe/SATA) 	<ul style="list-style-type: none"> 4 x hot-swap 2.5" SATA/SAS 6Gb drive bays 2 x hot-swap 2.5" NVMe drive bays in option 1 x M.2 2280 (PCIe/SATA) 	<ul style="list-style-type: none"> 2 x 3.5" internal SATA drive (1 x internal 3.5" drive bay can change to 2 x 2.5" SAS/SATA 6Gb Hot-swap drive bay in option) 1 x M.2 2280 (PCIe/SATA) 1 x M.2 2280 (PCIe)
Power Supply	500W Single Flex ATX PSU 650W 1+0 non-redundancy PSU	1200W 1+1 redundancy PSU 1200W 1+0 non-redundancy PSU	1200W 1+0 non-redundancy PSU
Cooling System	3* 40 x 56 mm system fan 2* 40 x 28 mm system fan	3* 80 x 38 mm system fan 1* 60 x 38 mm system fan	3* 120 x 38 mm system fan
Physical Characteristics (W x H x D)	438 x 44 x 480 mm (17.24" x 1.73" x 18.9")	438 x 88 x 523 mm (17.24" x 3.46" x 20.59")	438 x 177 x 450mm (17.24" x 6.97" x 17.7")
Operating Temperature	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 50 °C (32 ~ 122 °F)
Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158°F)	-40 ~ 70 °C (-40 ~ 158°F)	-40 ~ 70 °C (-40 ~ 158°F)
Humidity	10 ~ 95%, non-condensing	10 ~ 95%, non-condensing	10 ~ 95%, non-condensing

Short-depth Servers



Model		SKY-7120S	SKY-7223D	SKY-7632D
Description		1U 5G vRAN & Edge Computing (OTII Compliant) Server	2U 5G vRAN & Edge Computing (OTII Compliant) Server	2U Edge Server with 3rd Gen Intel® Xeon® Scalable Processors
Form Factor		1U - Rackmount	2U - Rackmount	2U - Rackmount
Processor System	Processor	Intel® Xeon D-2100 Processors	Dual Socket, 2nd Gen Intel® Xeon® Scalable Processors (Cascade Lake)	Dual Socket, 3rd Gen Intel® Xeon® Scalable processors
	Core Number	Up to 16C	Up to 32C	Up to 32C
	Frequency	Up to 2.0GHz	2.2GHz	3.1GHz
	Chipset	N/A	Intel® C626	Intel® C621A
Memory	Technology	4 x DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 2666MHz	16 x DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 2933MHz	16 x DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 3200MHz
	Max. Capacity	512GB	2TB	2TB
	Socket	4 x 288-pin RDIMM/LRDIMM	16 x 288-pin RDIMM/LRDIMM	16 x 288-pin RDIMM/LRDIMM
	ECC Support	ECC/REG	ECC/REG	ECC/REG
Networking	Controller	Intel XL722 / I350	Intel XL722 / XL710	Intel® i210-AT
	1GbE	4 x 10/100/1000Mbps MGMT ports	2 x 10/100/1000Mbps MGMT ports	2 x 10/100/1000Mbps MGMT ports
	10GE	4 x 10Gbps SFP+ ports	6 x 10Gbps SFP+ ports	-
Expansion	PCIe Slots	<ul style="list-style-type: none"> 2 FH/FL PCIe Gen3 x16 (or 1 FH/FL DW PCIe Gen3 x16) 	<ul style="list-style-type: none"> Up to 4 FH/FL + 2 FH/HL PCIe Gen3 Up to 2 FH/FL DW + 2 FH/HL PCIe Gen3 	<ul style="list-style-type: none"> 3 LP PCIe Gen4 x16+ 2 LP PCIe Gen4 x8 2 x Double Width FH/FL PCIe Gen4 x16)
	M.2 PCIe/SSD	2 x M.2 2280 slots (SATA/PCIe)	2 x M.2 2280 slots (SATA/PCIe)	2 x M.2 2280 slots (NVMe)
Storage	2.5" HDD/SSD	2 x 2.5" hot-swappable SAS/SATA HDD/SSD drives	6 x 2.5" hot-swappable SAS/SATA HDD/SSD drives	6 x 2.5" hot-swappable SAS/SATA HDD/SSD drives
I/O	Console port	1 x RJ45 Console port	1 x RJ45 Console port	1 x RJ45 Console port
	USB2.0/USB3.0	2 x USB3.0/2.0 Type A port	2 x USB3.0/2.0 Type A port	5 x USB3.0/2.0 Type A port
	LED Indicator	1 x Power, 1 x Status, 1 x UID	1 x Power, 1 x Status, 1 x UID	<ul style="list-style-type: none"> 1 x Power Status, 2 x LAN Activity 1 x UID, 1 x HDD Status 1 x System Alarm
	button	1 x Power button, 1 x ID button	1 x Power button, 1 x ID button	1 x Power, 1 x System Reset, 1 x UID
	Others	1 x VGA 1 x GbE Management port	1 x VGA 1 x GbE Management port	1 x VGA 1 x GbE Management port
Power	Power Type	AC / DC redundant	AC / DC redundant	AC, redundant
	Watts	AC 550W, DC 800W	AC 800W / 1200W, DC 800W	AC 800W / 1200W
	Input	100-240V~, 8-4A, 50-60Hz	100-240V~, 8-4A, 50-60Hz	100-240V~, 8-4A, 50-60Hz
Environment	Operating Temperature (air flow 0.7 m/ sec)	-5 ~ 55 °C (23 ~ 131 °F)	-5 ~ 45 °C (23 ~ 113 °F)	-5 ~ 45 °C (23 ~ 113 °F)
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
Cooling		4* 40 x 56 mm fan	4* 80 x 38 mm fan	4* 80 x 38 mm fan
Mechanical	Construction	Steel	Steel	Steel
	Mounting	Rack-mounting	Rack-mounting	Rack-mounting
	Dimensions (W x D x H)	438 x 420 x 44 mm (17.2" x 16.5" x 1.73")	448 x 440 x 88 mm (17.6" x 17.3" x 3.46")	438 x 450 x 87 mm (17.2" x 17.7" x 3.42")
	Weight	13 kg	15 kg	15 kg
OS Support		Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server
IPMI		<ol style="list-style-type: none"> Aspeed AST2500 BMC Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM support Advantech WeB GUI style node Configurable shared or dedicated NIC support 	<ol style="list-style-type: none"> Aspeed AST2500 BMC Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM support Advantech WeB GUI style node Configurable shared or dedicated NIC support 	<ol style="list-style-type: none"> Aspeed AST2600 BMC Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM support Advantech WeB GUI style node
Certification		CCC, CB, UL, FCC, CE, RoHS, REACH	CCC, CB, UL, FCC, CE, RoHS, REACH	CB, UL, FCC, CE, VCCI, BSMI RoHS, REACH



Model		SKY-8101 (20U)	SKY-8132S
Description		Compact 1U High Performance Server Based on Intel® Xeon® Processor Scalable Family	Compact 1U Edge Server based on 3rd Gen Intel® Xeon® Scalable Processor
Form Factor		1U - Rackmount	1U - Rackmount
Processor System	Processor	Single Intel® Xeon® processor Scalable family	Single socket 3rd Gen Intel® Xeon® Scalable Processor
	Core Number	Up to 28C	Up to 28C
	Frequency	Up to 2.9GHz	Up to 3.6GHz
	Chipset	Intel® C621/C622/C625/C626	Intel® C62xA series
Memory	Technology	6 x DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, up to 2933MHz	Up to 8 x 3200MHz DDR4 ECC Standard ECC RDIMM/LRDIMM, up to 3200MHz
	Max. Capacity	384GB/ 64GB per DIMM	512GB/ 64GB per DIMM
	Socket	6 x 288-pin RDIMM/LRDIMM	8 x 288-pin RDIMM/LRDIMM
	ECC Support	ECC/REG	ECC/REG
Networking	Controller	GbE LAN1/2: Intel® i210-AT	GbE LAN 1: Intel® i210-AT
	1GbE	2 x 10/100/1000 Mbps MGMT ports	1 x 10/100/1000 Mbps MGMT ports
	10GE	2 x 1Gbps/10Gbps SFP+ ports	-
Expansion	PCIe Slots	<ul style="list-style-type: none"> 2 FH/FL PCIe Gen3 x8 (or 1 FH/FL PCIe Gen3 x16) 1 LP PCIe Gen3 x8 1 LP PCIe Gen3 x4 (Compatible with Advantech network adapters) 	<ul style="list-style-type: none"> 2 FH/FL PCIe Gen4 x16 2 HH/HL (FH bracket) PCIe Gen4 x16
Storage	M.2 PCIe/SSD	1 x M.2 2280 slot (SATA/PCIe)	2 x M.2 2280 slots (SATA/PCIe)
	2.5" HDD/SSD	4 x 2.5" hot-swappable SAS/SATA HDD/SSD drives	4 x 2.5" hot-swappable SAS/SATA HDD/SSD drives
I/O	Console port	1 x microUSB console	1 x RJ45
	USB2.0/USB3.0	1 x USB3.0/2.0 (Front) 2 x USB3.0/2.0 (Rear)	2 x USB3.0 (Front) 1 x USB3.0 (Rear)
	LED Indicator	ID, Critical, Major, Minor, Power, status LEDs	ID, Critical, Major, Minor, Power, status LEDs
	Reset button	Power button	Reset / Power button
	VGA/Display Port	1 x Display port	1 x VGA port
Power	Power Type	Redundant AC 700W Redundant DC 600W	Redundant AC 700W Redundant DC 600W
	Watts	(AC) 700W (DC) 600W	(AC) 700W (DC) 600W
	Input	(AC) 100-240V _{AC} , 9-4A, 50-60Hz (DC)-44- -65V _{DC} , 18-10A	(AC) 100-240V _{AC} , 9-4A, 50-60Hz (DC)-44- -65V _{DC} , 18-10A
	Power Adapter	AC / DC redundant	AC / DC redundant
Environment	Operating Temperature (air flow 0.7 m/ sec)	-5 ~ 55 °C (23 ~ 131 °F)	-5 ~ 55 °C (23 ~ 131 °F)
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F)	-40 °C (-40 °F) ~ 70 °C (158 °F)
Cooling		5* 40 x 65mm fan	5* 40 x 65mm fan
Mechanical	Construction	Steel	Steel
	Mounting	Rack-mounting	Rack-mounting
	Dimensions (W x D x H)	438.00 x 506.20 x 44.20 mm (17.24" x 19.93" x 1.74")	438 x 517 x 43.5 mm (17.2 x 20.4" x 1.74")
	Weight	15kg	Approximately 15kg
OS Support		Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server
IPMI		<ol style="list-style-type: none"> Aspeed AST2500 BMC with Advantech System Management Solution Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM Support Advantech Web GUI style Node Manager Configurable shared or dedicated NIC support Redfish API support 	<ol style="list-style-type: none"> Aspeed AST2500 BMC with Advantech System Management Solution Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM Support Advantech Web GUI style Node Manager Configurable shared or dedicated NIC support Redfish API support
Certification		CB, UL, FCC, CE, VCCI, RCM, CCC, RoHS, REACH	CB, UL, FCC, CE, VCCI, RCM, RoHS, REACH

Short-depth Servers



Model		SKY-8132S-11	SKY-8201	SKY-8211B (17")
Description		Ultra-short Depth 1U Edge Server based on 3rd Gen Intel Xeon Scalable Processor	Compact 2U High Performance Server Based on Intel® Xeon® Processor Scalable Family	Single Socket 2U High Performance Server based on Intel® Xeon® Processor Scalable Family
Form Factor		1U - Rackmount	2U - Rackmount	2U - Rackmount
Processor System	Processor	Single socket 3rd Gen Intel® Xeon® Scalable Processor	Dual Intel® Xeon® Scalable processors	Single Intel® Xeon® Scalable processor
	Core Number	Up to 36C	Up to 28C	Up to 28C
	Frequency	Up to 3.5GHz	Up to 2.9GHz	Up to 2.9GHz
	Chipset	Intel® C62xA series	Intel® C621/ C622/ C626/ C627/ C628	Intel® C621/ C622
Memory	Technology	Up to 8 x 3200MHz DDR4 RDIMM/ LRDIMM with ECC	16 x DDR4 DIMMs, ECC/REG/RDIMM/ LRDIMM, up to 2933MHz	6 x DDR4 DIMMs, ECC/REG/RDIMM/ LRDIMM, up to 2666MHz
	Max. Capacity	512GB / 64GB per DIMM	1024GB / 64GB per DIMM	384GB / 64GB per DIMM
	Socket	8 x 288-pin RDIMM/LRDIMM	16 x 288-pin RDIMM/LRDIMM	6 x 288-pin RDIMM/LRDIMM
	ECC Support	ECC/REG	ECC/REG	ECC/REG
Networking	Controller	GbE LAN: Intel i210-IS support 2 x SFP ports	GbE LAN1: Intel® i210-AT 10GbE SFP+ LAN1/2: Integrated into PCH, with SR-IOV and RDMA support	GbE LAN1/2 (MGMT): Intel® i210-AT
	1GbE	Via Add-on PCIe card	2 x 10/100/1000 Mbps MGMT ports	10GbE SFP+: Intel® XL710: 8 x 10Gb
	10GE	Via Add-on PCIe card	2 x 1Gbps/10Gbps SFP+ ports	1GbE SFP: Intel® I350 :24 x 1GbE ports
Expansion	PCIe Slots	<ul style="list-style-type: none"> 2 FH/HL PCIe Gen4 x16 1 LP PCIe Gen4 x16 	<ul style="list-style-type: none"> 4 FH/FL PCIe Gen3 x8 2 FH/HL PCIe Gen3 x8 (or 4 FH/FL PCIe Gen3 x16) 2 LP PCIe Gen3 x8 	-
Storage	2.5" HDD/SSD	1 x 2.5" SATA3/NVMe U.2 SSD (depends on SKU)	4 x 2.5" hot-swappable SAS/SATA HDD/SSD drives	-
	M.2 PCIe/SSD	2 x M.2 2280 slots (SATA/PCIe)	1 x M.2 2280 slot (SATA/PCIe)	1 x M.2 2280 slot (SATA)
I/O	Console port	1 x RJ45	1 x RJ45	1 x RJ45
	USB2.0/USB3.0	2 x USB3.0 ports (Front)	2 x USB3.0/2.0 (Front) 2 x USB3.0/2.0 (Rear)	2 x USB3.0/2.0 (Front)
	LED Indicator	alarm LEDs	ID, Critical, Major, Minor, Power, status LEDs	-
	Reset button	-	-	Power button
	VGA/Display Port	-	1 x VGA port / 1 x Display port	1 x Display port
	Power	Power Type	800W D/D power brick	Redundant AC 1200W Redundant DC 800W
Watts		DC 800W	(AC/DC) 1200/800W	(AC/DC) 550W
Input		(DC) 1+1 redundant DC input feeds (A and B @ -38V _{DC} ~ -72V _{DC})	(AC) 100-240V _{AC} , 12-10A, 50-60Hz (DC) -36 ~ -72V _{DC} , 40-25A	(AC) 100-240V _{AC} , 8-4A, 50-60Hz (DC)-48V _{DC} , 12A
Power Adapter		NA	AC / DC redundant	AC / DC redundant
Environment	Operating Temperature (air flow 0.7 m/ sec)	-40 °C (-40 °F) ~ 65 °C (149 °F) Depends on CPU model and configuration	-5 °C (23 °F) ~ 55 °C (131 °F)	-20 °C (-4 °F) ~ 70 °C (158 °F)
	Non-operating Temperature	-40 °C (-40 °F) ~ 70 °C (158 °F)	-40 °C (-40 °F) ~ 70 °C (158 °F)	-40 °C (-40 °F) ~ 70 °C (158 °F)
Cooling		9" high speed fans	6" 80 x 38mm fan	4" 80 x 38mm fan
Mechanical	Construction	Steel	Steel	Steel
	Mounting	Rack-mounting	Rack-mounting	Rack-mounting
	Dimensions (W x D x H)	445 x 291 x 43.8mm (17.5" x 11.5" x 1.72")	430 x 508 x 88.6 mm (16.9" x 20" x 3.48")	430 x 430 x 88.1 mm (16.93" x 16.93" x 3.46")
	Weight	Approximately 8 kg	18 kg	15 kg
OS Support		Linux (CentOS, Red Hat), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu)
IPMI		<ol style="list-style-type: none"> Aspeed AST2500 BMC with Advantech System Management Solution Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM Support Advantech Web GUI style Node Manager Configurable shared or dedicated NIC support Redfish API support 	<ol style="list-style-type: none"> Aspeed AST2500 BMC Advanced Lights Out Management compliant to IPMI2.0 with security and availability iKVM support Advantech WeB GUI style node Redfish API support 	<ol style="list-style-type: none"> Aspeed AST2500 BMC Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM support Advantech WeB GUI style node Configurable shared or -dedicated NIC support Redfish API support
Certification		CB, UL, FCC, CE, VCCI, CCC, BIS, NOM	CB, UL, FCC, CE, VCCI, RCM, RoHS, REACH, NOM	CB, UL, FCC, CE, VCCI, RCM, RoHS, REACH

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Model		SKY-8232D	SKY-8260S
Description		Compact 2U Edge Server based on Dual 3rd Gen Intel® Xeon® Scalable Processors	Compact 2U Carrier Grade, High Performance Server based on AMD EPYC™ 7003/7002 Series Processors
Form Factor		2U - Rackmount	2U - Rackmount
Processor System	Processor	Dual socket 3rd Gen Intel® Xeon® Scalable Processors	Single AMD EPYC™ 7003/7002 Series Processors, 32 cores, 180W
	Core Number	Up to 28C	Up to 32C
	Frequency	Up to 3.6GHz	Up to 3.7GHz
	Chipset	Intel® PCH C62xA series	-
Memory	Technology	Up to 32 x 3200MHz DDR4 ECC Standard ECC RDIMM/LRDIMM	Up to 16 x 3200MHz DDR4 ECC Standard ECC RDIMM/LRDIMM
	Max. Capacity	2048GB / 64GB per DIMM	1024GB / 64GB per DIMM
	Socket	32 x 288-pin RDIMM/LRDIMM	16 x 288-pin RDIMM/LRDIMM
	ECC Support	ECC/REG	ECC/REG
Networking	Controller	GbE LAN 1/2: Intel® i210-AT	GbE LAN 1/2: Intel® i210-AT
	1GbE	2	2
	10GE	NA	NA
Expansion	PCIe Slots	<ul style="list-style-type: none"> 4 FH/FL PCIe Gen4 x16 + 2 LP PCIe Gen4 x8 2 FH/FL PCIe Gen4 x16 + 2 FH/FL PCIe Gen4 x8 + 2 FH/HL PCIe Gen4 x8 + 2 LP PCIe Gen4 x8 	<ul style="list-style-type: none"> 4 FH/FL PCIe Gen4 x16 + 2 LP PCIe Gen4 x8 2 FH/FL PCIe Gen4 x16 + 2 FH/FL PCIe Gen4 x8 + 2 FH/HL PCIe Gen4 x8 + 2 LP PCIe Gen4 x8
	M.2 PCIe/SSD	2 x M.2 2280 SATA SSD	2 x 2280 M.2 (SATA3/ PCIe)
Storage	2.5" HDD/SSD	2 x 2.5" SATA SSD (Internal) 2 x 2.5" SATA SSD (Rear)	2 x 2.5" SATA SSD (Internal) 2 x 2.5" SATA /PCIe SSD (Rear)
	Console port	1	1
I/O	USB2.0/USB3.0	2 x USB3.0 (Rear) 1 x USB3.0, 1 x USB2.0 (Front)	2 x USB3.0 (Rear) 1 x USB3.0, 1 x USB2.0 (Front)
	LED Indicator	ID, Critical, Major, Minor, Power, status LEDs	ID, Critical, Major, Minor, Power, status LEDs
	Reset button	Reset button	Reset button
	Others	1 x VGA 2 x GbE LAN RJ45 1 x GbE RJ45 management port 1 x OCP3.0 module slot	1 x VGA 2 x GbE RJ45 1 x GbE RJ45 management port 1 x OCP3.0 module slot
	Power Type	1+1 redundant AC / DC PSU with separate power inlets	1+1 redundant AC / DC PSU with separate power inlets
Power	Watts	1200W AC/ 800W DC PSU	1200W AC/ 800W DC PSU
	Input	AC: 100-240V _{AC} , 12-10A, 50-60Hz. DC: -40 - -60V _{DC} , 25.2-16.8A	AC: 100-240V _{AC} , 12-10A, 50-60Hz. DC: -40 - -60V _{DC} , 25.2-16.8A
	Power Adapter	AC / DC redundant	AC / DC redundant
Environment	Operating Temperature (air flow 0.7 m/ sec)	-5°C (23 °F) ~ 55 °C (131 °F)	-5°C (23 °F) ~ 40 °C (104 °F)
	Non-operating Temperature	-40 °C (-40 °F) ~ 70 °C (158 °F)	-40 °C (-40 °F) ~ 70 °C (158 °F)
Cooling		6* high speed fans (N+1 redundant)	6* high speed fans (N+1 redundant)
Mechanical	Construction	Steel	Steel
	Mounting	Rack-mounting	Rack-mounting
	Dimensions (W x D x H)	436.6 x 533 x 87 mm (17.19" x 20.9" x 3.48")	436 x 533 x 87 mm (17.19" x 20.9" x 3.48")
	Weight	Approximately 18 kg	Approximately 18 kg
IPMI		<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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
Certification		CB, UL, FCC, CE, VCCI, RCM, RoHS, REACH	CB, UL, FCC, CE, VCCI, RCM, RoHS, REACH

Single-node Servers



Model		SKY-7132D	SKY-7210L	SKY-7221
Description		1U High Performance Rackmount Server	2U Rackmount Hybrid Network Server	2U High Performance Rackmount Server
Form Factor		1U - Rackmount	2U - Rackmount	2U - Rackmount
Processor System	Processor	Dual Socket, 3rd Gen Intel® Xeon® Scalable processors	2nd Gen Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)	2nd Gen Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)
	Core Number	Up to 32C	Up to 28 C	Up to 28 C
	Frequency	3.1GHz	Up to 2.4GHz	Up to 2.4GHz
	Chipset	Intel® C621A	Intel C621	Intel C621
Memory	Technology	DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 3200 MHz	DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 2933MHz	DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 2933MHz
	Max. Capacity	2048GB / 64GB per RDIMM	3TB	3TB
	Socket	32 x 288-pin RDIMM/LRDIMM	24 x 288-pin RDIMM/LRDIMM	24 x 288-pin RDIMM/LRDIMM
	ECC Support	ECC/REG	ECC/REG	ECC/REG
Networking	Controller	Intel® i210-AT	Intel i210	Intel i210
	1GbE	2 x 10/100/1000Mbps MGMT ports	2 x 10/100/1000 Mbps RJ45 via Intel i210 chip	2 x 10/100/1000 Mbps RJ45 via Intel i210 chip
	10GE	-	-	-
Expansion	PCIe Slots	Up to 2 FH/HL single-deck PCIe Gen4 x16	3 FH/FL PCIe Gen3 x16 or 6 FH/FL PCIe Gen3 x8	<ul style="list-style-type: none"> ▪ 1 FH/FL PCIe Gen3 x16 ▪ 4 LP PCIe Gen3 x8 ▪ 1 PCIe Gen3 x16 OCP 2.0 NIC or 2 FH/FL PCIe Gen3 x16 ▪ 2 LP PCIe Gen3 x8 ▪ 1 PCIe Gen3 x16 OCP 2.0 NIC
	M.2 PCIe/SSD	2 x M.2 2280 slots (SATA/PCIe)	1 x M.2 2280	2 x M.2 SATA3
	mSATA	-	-	-
Storage	2.5" HDD/SSD	12 x 2.5" SATA/SAS	-	-
	3.5" HDD	4 x 3.5" SATA/SAS HDD/SSD	12 x 3.5" SATA/SAS HDD/SSD	12 x 3.5" SATA/SAS HDD/SSD
	Console port	-	1	1
I/O	USB2.0/USB3.0	1 x USB3.0, 1 x USB2.0 (Front)	2 x USB3.0 (Rear), 2 x USB2.0 (Front)	4 x USB3.0/2.0
	LED Indicator	1 x Power status, 1 x System status, 1 x HD activity, 1 x Network activity 1 x System UID	6 x System LEDs (Power/HDD/LAN1/LAN2/Info/ID)	1 x Power_LED, 1 x HDD_LED, 1 x Info_LED, 1 x ID_LED
	Reset button	1 x Power, 1 x System Reset, 1 x UID	1 x Reset button 1 x power button 1 x ID button	1 x Power button, 1 x ID button
Power	Power Type	AC, redundant	AC, redundant	AC, redundant
	Watts	800W	850W	850 W / 1200W
	Input	100-240V~, 8-4A, 50-60Hz	100V ~ 240V, 50-60Hz	100V ~ 240V, 50-60Hz
	Power Adapter	-	-	-
Environment	Operating Temperature (air flow 0.7 m/ sec)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)	0 ~ 40 °C (32 ~ 104 °F)
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)
Cooling		8" 40 x 38mm fan	6" 60 x 56mm fan	4" 80 x 38mm fan
Mechanical	Construction	Steel	Steel	Steel
	Mounting	1U - Rack Mount	2U - Rack Mount	2U - Rack Mount
	Dimensions (W x D x H)	438 x 775 x 44.2 mm (17.2" x 30.5" x 1.74")	438 x 730 x 88 mm (17.2" x 28.7" x 3.46")	448 x 760 x 88.4 mm (17.6" x 29.9" x 3.48")
	Weight	18 kg	26 kg	25 kg
OS Support		Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu)	Linux (CentOS, Red Hat, Ubuntu)
IPMI		<ol style="list-style-type: none"> 1. Aspeed AST2500 BMC 2. Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements 3. iKVM support Advantech Web GUI style node 4. Configurable shared or dedicated NIC support CB, UL, FCC, CE, RoHS, REACH 	Industry standard BMC, IPMI v2.0 compliant, with web interface, iKVM on request (AMI MegaRAC SP-X)	Industry standard BMC, IPMI v2.0 compliant, with web interface, iKVM on request (AMI MegaRAC SP-X)
Certification		CE, FCC, CB, UL	CE, FCC, CB, UL, CCC	CE, FCC, CB, UL, CC

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Model		SKY-7232D	SKY-7260S3P	SKY-8101D (29.5")
Description		2U High Performance Rackmount Server	2U High Performance Rackmount Server	Compact 1U High Performance Server Based on Intel® Xeon® Processor Scalable Family
Form Factor		2U - Rackmount	2U - Rackmount	1U - Rackmount
Processor System	Processor	Dual Socket, 3rd Gen Intel® Xeon® Scalable processors	AMD EPYC™ 7003	Dual Intel® Xeon® Scalable Skylake-SP processors
	Core Number	Up to 32C	Up to 64 C	Up to 28C
	Frequency	Up to 3.1GHz	Up to 3.4GHz	Up to 2.6 GHz
	Chipset	Intel® C621A	AMD EPYC 7003 CPU	Intel® C622/ C625/ C626/ C627
Memory	Technology	DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 3200 MHz	DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 3200 MHz	DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, Up to 2933 MHz
	Max. Capacity	2048GB / 64GB per RDIMM	1024GB / 64GB per RDIMM	1536 GB/ 64 GB per DIMM
	Socket	32 x 288-pin RDIMM/LRDIMM	16 x 288-pin RDIMM/LRDIMM	24 x 288-pin RDIMM/LRDIMM
	ECC Support	ECC/REG	ECC/REG	ECC/REG
Networking	Controller	Intel® i210-AT	Intel® i210-AT	Intel® i210-AT
	1GbE	2 x 10/100/1000Mbps MGMT ports	2 x 10/100/1000Mbps MGMT ports	2 x 10/100/1000 Mbps MGMT ports
	10GE	-	-	2 x 10Gbps SFP+ ports (OCP Mezz. card)
Expansion	PCIe Slots	<ul style="list-style-type: none"> 2 FH/FL PCIe Gen4 x16 2 FH/FL PCIe Gen4 x8 2 FH/HL PCIe Gen4 x8 2 LP PCIe Gen4 x8 2 LP PCIe Gen4 x8 (Optional) 	<ul style="list-style-type: none"> 1 FH/FL PCIe Gen3 x16 2 FH/HL PCIe Gen3 x8 1 FH/FL PCIe Gen4 x16 2 FH/HL PCIe Gen4 x8 2 HH/HL PCIe Gen4 x8 	<ul style="list-style-type: none"> 4 FH/¼L PCIe Gen3 x16
	M.2 PCIe/SSD	2 x M.2 2280 slots (SATA/PCIe)	2 x M.2 2280 slots (SATA/PCIe)	2 x M.2 2280 slots (SATA/PCIe)
Storage	2.5" HDD/SSD	24 x 2.5" SATA/SAS	-	4 x 2.5" hot-swappable, SAS/SATA HDD/SSD drives 4 x 2.5" hot-swappable NVMe SSD (Optional)
	3.5" HDD	12 x 3.5" SATA/SAS HDD/SSD	12 x 3.5" SATA/SAS HDD/SSD	-
	mSATA SSD	-	-	-
I/O	Console port	1 x RJ45	1 x RJ45	1 x RJ45
	USB2.0/USB3.0	1 x USB3.0, 1 USB2.0 (Front) 2 x USB3.0 (Rear)	1 x USB3.0, 1 x USB2.0 (Front) 2 x USB3.0 (Rear)	2 x USB3.0/2.0 Type A port (Front)
	LED Indicator	1 x Power status, 1 x System status, 1 x HD activity, 1 x Network activity 1 x System UID	1 x Power status, 1 x System status, 1 x HD activity, 1 x Network activity 1 x System UID	ID, Power, 3 x SW definable LEDs
	Reset button	1 x Power, 1 x System Reset, 1 x UID	1 x Power, 1 x System Reset, 1 x UID	Power button ID button
	Others	1 x VGA 1 x GbE Management port	1 x VGA 1 x GbE Management port	1 x VGA port 2 x GbE RJ45 2 x 10GbE SFP+
	Power	Power Type: AC, redundant Watts: AC 800W / 1200W Input: 100-240V~, 8-4A, 50-60Hz Power Adapter: -	Power Type: AC, redundant Watts: AC 800W / 1200W Input: 100-240V~, 8-4A, 50-60Hz Power Adapter: -	Power Type: Redundant AC 800W / 1200W / 1600W Watts: (AC) 800W / 1200W / 1600W Input: 100-240V~, 12-6A, 50-60Hz Power Adapter: AC, redundant
Environment	Operating Temperature	0 °C ~ 40 °C (32°F ~ 104 °F)	0 °C ~ 40 °C (32°F ~ 104 °F)	0 °C (32 °F) to 40 °C (104 °F)
	Non-operating Temperature	-40 ~ 70 °C (-40 ~ 158 °F)	-40 ~ 70 °C (-40 ~ 158 °F)	-40 °C (-40 °F) to 70 °C (158 °F)
Mechanical	Cooling	4 x 8038mm fan	4 x 8038mm fan	6" 40 x 56mm fan
	Construction	Steel	Steel	Steel
	Mounting	Rack-mounting	Rack-mounting	Rack-mounting
	Dimensions (W x D x H)	438 x 797 x 88 mm (17.2" x 31.3" x 3.46")	438 x 797 x 88 mm (17.2" x 31.3" x 3.46")	438 x 749.7 x 44.2 mm (17.25" x 29.5" x 1.74")
	Weight	25 kg	25 kg	20 kg
OS Support		Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu)
IPMI		<ol style="list-style-type: none"> Aspeed AST2500 BMC Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM support Advantech WeB GUI style node 	<ol style="list-style-type: none"> Aspeed AST2500 BMC Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM support Advantech WeB GUI style node 	<ol style="list-style-type: none"> Aspeed AST2500 BMC Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements iKVM support Advantech WeB GUI style node Configurable shared or -dedicated NIC support
Certification		CB, UL, FCC, CE, RoHS, REACH	CB, UL, FCC, CE, RoHS, REACH	CB, UL, FCC, CE, VCCI, RCM, RoHS, REACH

Single-node Servers



Model		☞ SKY-8101L1 (27.5")	☞ SKY-8201L1 (27.5")
Description		Compact 1U High Capacity Storage Server Based on Intel® Xeon® Processor Scalable Family	Compact 2U High Capacity Storage Server Based on Intel® Xeon® Processor Scalable Family
Form Factor		1U - Rackmount	2U - Rackmount
Processor System	Processor	Single Intel® Xeon® processor Scalable family	Dual Intel® Xeon® Scalable processors
	Core Number	Up to 28C	Up to 28C
	Frequency	2.6GHz	2.6GHz
	Chipset	Intel® C622/ C626/ C627/ C628	Intel® C622/ C626/ C627/ C628
Memory	Technology	6 x DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, up to 2933MHz	16 x DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, up to 2933MHz
	Max. Capacity	384GB/ 64GB per DIMM	1024GB/ 64GB per DIMM
	Socket	6 x 288-pin RDIMM/LRDIMM	16 x 288-pin RDIMM/LRDIMM
	ECC Support	ECC/REG	ECC/REG
Networking	Controller	GbE LAN1/2: Intel® i210-AT 10GbE SFP+ LAN1/2: Integrated into PCH, with SR-IOV and RDMA support	GbE LAN1: Intel® i210-AT 10GbE SFP+ LAN1/2: Integrated into PCH, with SR-IOV and RDMA support
	1GbE	2 x 10/100/1000 Mbps MGMT ports	2 x 10/100/1000 Mbps MGMT ports
	10GE	2 x 1Gbps/10Gbps SFP+ ports	2 x 1Gbps/10Gbps SFP+ ports
Expansion	PCIe Slots	<ul style="list-style-type: none"> ▪ 2 FH/FL PCIe Gen3 x8 (or 1 FH/FL PCIe Gen3 x16) ▪ 1 LP PCIe Gen3 x8 ▪ 1 LP PCIe Gen3 x4 (Compatible with Advantech network adapters) 	<ul style="list-style-type: none"> ▪ 4 FH/FL PCIe Gen3 x8 + 2 FH/HL PCIe Gen3 x8 (or 4 FH/HL PCIe Gen3 x16) ▪ 2 LP PCIe Gen3 x8
	M.2 PCIe/SSD	1 x M.2 2280 slot (SATA/PCIe)	1 x M.2 2280 slot (SATA/PCIe)
Storage	2.5" HDD/SSD	8 x 2.5" hot-swappable SAS/SATA HDD/SSD drives 2 x 2.5" hot-swappable NVMe SSD	-
	3.5" HDD	-	12 x 3.5" hot-swappable, SAS/SATA HDD/SSD drives 4 x 2.5" hot-swappable NVMe SSD (Optional)
I/O	Console port	1 x microUSB console	1 x RJ45
	USB2.0/USB3.0	1 x USB3.0/2.0 Type A port (Front) 2 x USB3.0/2.0 Type A port (Rear)	2 x USB2.0 Type A port (Front) 2 x USB3.0/2.0 Type A port (Rear)
	LED Indicator	ID, Power, 3 x SW definable LEDs	ID, Power, Status LEDs
	Reset button	Power button ID button	-
	Others	1 x Display port 2 x GbE RJ45 2 x 10GbE SFP+	1 x Display port 1 x VGA port 2 x GbE RJ45 2 x 10GbE SFP+
Power	Power Type	Redundant AC 850W	Redundant AC 1200W
	Watts	(AC) 850W	(AC) 1200W
	Input	(AC) 100-240V _{AC} , 12-6A, 50-60Hz	(AC) 100-240V _{AC} , 50-60Hz, 12-7A
	Power Adapter	AC, redundant	AC, redundant
Environment	Operating Temperature (air flow 0.7 m/ sec)	0 °C ~ 40 °C (32 °F~104 °F)	0 °C ~ 40 °C (32 °F~104 °F)
	Non-operating Temperature	-40 °C (-40 °F) to 70 °C (158 °F)	-40 °C (-40 °F) to 70 °C (158 °F)
Cooling		6* 40 x 56mm fan	4* 80 x 38mm fan
Mechanical	Construction	Steel	Steel
	Mounting	Rack-mounting	Rack-mounting
	Dimensions (W x D x H)	438.40 x 696.15 x 44.20 mm (17.26" x 27.41" x 1.74") with ear handle	438.4 x 699.8 x 88.1 mm (17.26" x 27.5" x 3.46")
	Weight	16 kg	25 kg
OS Support		Linux (CentOS, Red Hat, Ubuntu), Windows Server	Linux (CentOS, Red Hat, Ubuntu), Windows Server
IPMI		<ol style="list-style-type: none"> 1. Aspeed AST2500 BMC 2. Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements 3. iKVM support Advantech Web GUI style node 4. Configurable shared or -dedicated NIC support 	<ol style="list-style-type: none"> 1. Aspeed AST2500 BMC 2. Advanced Lights Out Management compliant to IPMI2.0 with security and availability enhancements 3. iKVM support Advantech Web GUI style node 4. Configurable shared or -dedicated NIC support
Certification		CB, UL, FCC, CE, VCCI, RCM, RoHS, REACH	CB, UL, FCC, CE, VCCI, RCM, RoHS, REACH



Multi-node Servers & Storage Servers



- 1 Network Appliances
- 2 Servers, Server Boards and Chassis
- 3 Network Interface & Acceleration Cards
- 4 GPU Solutions
- 5 Video Infrastructure Solutions

Model		SKY-9232D3	SKY-9240
Description		2U4N Multinode HCI Server	2U4N Multinode HCI Server
Form Factor		2U - Rackmount	2U - Rackmount
Processor System	Processor	Single/Dual 3rd Gen Intel® Xeon® Scalable Processors (per node)	Dual 2nd Gen Intel® Xeon® Scalable Processors (per node)
	Core Number	–	Up to 28C
	Frequency	–	–
	Chipset	Intel® C621A	Intel® C620 Series (per node)
Memory	Technology	DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM (per node, 8pcs/CPU) up to 3200MHz	DDR4 DIMMs, ECC/REG/RDIMM/LRDIMM, up to 2666MHz
	Max. Capacity	2TB (per node)	1024GB / 64GB per DIMM (per node)
	Socket	16 x 288-pin RDIMM/LRDIMM	16 x 288-pin RDIMM/LRDIMM
	ECC Support	ECC/REG	ECC/REG
Networking	Controller	–	–
	1GbE	1 x 10/100/1000Mbps BMC/Share NIC ports (per node)	1 x 10/100/1000Mbps BMC/Share NIC ports (per node)
	10GE	–	–
Expansion	PCIe Slots	<ul style="list-style-type: none"> ▪ 1 x HH/HL PCIe Gen4 x16 (per node) ▪ 1 x PCIe Gen3 OCP 2.0 x8 (per node) 	<ul style="list-style-type: none"> ▪ 2 HH/HL PCIe Gen3 x 16 (SKU A) ▪ 1 HH/HL PCIe Gen3 x 16 (SKU B) (per node) ▪ 1 PCIe Gen3 OCP x8, supporting KR/SFI x2 (per node)
	M.2 PCIe/SSD	2 x M.2 2280 (NVMe/SATA; per node)	2 x M.2 2280 slots (per node)
Storage	2.5" HDD/SSD	1 x 2.5" NVMe SSD (per node)	1 x 2.5" SAS/SATA/NVMe HDD/SSD drives (per node)
	3.5" HDD	12 x 3.5" SATA HDD drives (3 per node)	12 x 3.5" SATA/SAS HDD drives (3 per node)
I/O	Console port	1 x MicroUSB/node	1 x MicroUSB/node
	USB2.0/USB3.0	1 x USB3.0/USB2.0 Type A port at rear (per node)	2 x USB3.0/USB2.0 Type A port at rear (per node)
	LED Indicator	Power, UID	Power, UID
	Reset button	–	–
	Others	1 x VGA port (per node)	1 x VGA port (per node)
Power	Power Type	Redundant AC 2000W (Redundant power limitation for 100-127V _{AC} is up to 1000W)	Redundant AC 2000W (Redundant power limitation for 100-127V _{AC} is up to 1000W)
	Watts	2000W	2000W
	Input	1000W@100-127V _{AC} /12-9.5A, 1800W@200-220V _{AC} /10-9.5A, 1980W@220-230V _{AC} /10-9.8A, 2000W@230-240V _{AC} /10-9.8A	1000W@100-127V _{AC} /12-9.5A, 1800W@200-220V _{AC} /10-9.5A, 1980W@220-230V _{AC} /10-9.8A, 2000W@230-240V _{AC} /10-9.8A
	Power Adapter	AC, redundant	AC, redundant
Environment	Operating Temperature (air flow 0.7 m/ sec)	0 ~ 35 °C (32 ~ 95 °F)	0 ~ 35 °C (32 ~ 95 °F)
	Non-operating Temperature	-40 ~ 60 °C (-40 ~ 140 °F)	-40 ~ 60 °C (-40 ~ 140 °F)
Cooling		4* 80 x 76mm hot-swappable PWM fans with fan speed control	4* 80 x 76mm hot-swappable PWM fans with fan speed control
Mechanical	Construction	Steel	Steel
	Mounting	Rack-mounting	Rack-mounting
	Dimensions (W x D x H)	438 x 87.5 x 810 mm	438 x 88 x 774 mm (17.2" x 3.46" x 30.47")
	Weight	50 kg	30 kg (w/o peripherals)
OS Support		–	–
IPMI		Aspeed AST2500 Carrier Grade BMC (IPMI v2.0 compliant) with fail safe updates, Web Interface, KVM, Redfish (Advantech IPMI Core)	Aspeed AST2500 Carrier Grade BMC (IPMI v2.0 compliant) with fail safe updates, Web Interface, KVM, Redfish (Advantech IPMI Core)
Certification		CE/FCC, UL, CB, RoHS, BSMI	CB, UL, FCC, CE, CCC, VCCI, BSMI, RoHS, REACH

WISE-STACK Private Cloud

Model		WISE-STACK200-BH (Standard product)	WISE-STACK200-OH (include OpenStack)
Service	WISE-PaaS Service	WISE-PaaS/EnSaaS K8s Service (BI/Digital twin, AI)	WISE-PaaS/EnSaaS K8s Service (BI/Digital twin, AI)
	IaaS Service	Kubernetes, support RBAC model-based multi-tenancy, HA	OpenStack support full function multi-tenancy, HA
Computing Resources	Processor	vCPU: 120 cores	vCPU: 120 cores
	GPU Card	-	-
	Memory	768GB	768GB
	RAM	32G DDR4 2933 ECC REG x 24	32G DDR4 2933 ECC REG x 24
	Storage	16TB (Replica 3)	32TB (Replica 3)
	OS disk	Industrial SATA3 240GB SSD x 6	Enterprise SATA3 480GB SSD x 6
	Cache	Industrial SATA3 240GB SSD x 6	Enterprise SATA3 480GB SSD x 6
	3.5" HDD	Enterprise SATA3 4TB 7200rpm HDD x 12	Enterprise SATA3 4TB 7200rpm HDD x 24
	Server Configuration in rack	All in one node x 3	OpenStack HCI node x 3
OS Support in VM	Windows	-	Windows Server
	Linux	-	Linux (CentOS7.6, Ubuntu 18.4, etc.)
Security	Anti-Virus	Optional	Optional
Networking	Networking	10GbE SPF + x 12, 1GbE RJ45 x 6, IPMI (1GbE RJ45) x 3	10GbE SPF + x 12, 1GbE RJ45 x 6, IPMI (1GbE RJ45) x 3
	Network switch	10GbE SPF + x 12, 10GbE RJ45 x 12 (x2)	10GbE SPF + x 12, 10GbE RJ45 x 12 (x2)
Server Selection	Server in rack	SKY-7221 x 3	SKY-7221 x 3 and more
Server Product Photo			

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Model		WISE-STACK200-DS (single node for Digital Twin)	WISE-STACK200-AS (single node for numerical AI)	WISE-STACK200-GS (single node for graphical AI)
Service	WISE-PaaS Service	WISE-PaaS/EnSaaS K8s Service (BI/Digital twin)	WISE-PaaS/EnSaaS K8s Service (BI/Digital twin, AI)	WISE-PaaS/EnSaaS K8s Service (BI/Digital twin, AI)
	IaaS Service	Kubernetes Bare metal	Kubernetes Bare metal	Kubernetes Bare metal
Computing Resources	Processor	Intel Xeon Silver 4216 16Cx1	Intel Xeon Silver 4216 16Cx2	Intel Xeon Silver 4216 16Cx2
	GPU Card	Optional	Optional	Nvidia Quadro RTX A5000 x 2
	Memory	128GB	256GB	256GB
	RAM	32G DDR4 2933 ECC REG x 4	32G DDR4 2933 ECC REG x 8	32G DDR4 2933 ECC REG x 8
	Storage	8TB (Replica 2)	8TB (Replica 2)	8TB (Replica 2)
	OS disk	Industrial SATA3 240GB SSD x 2	Industrial SATA3 240GB SSD x 2	Industrial SATA3 240GB SSD x 2
	Cache	Industrial SATA3 240GB SSD x 2	Industrial SATA3 240GB SSD x 2	Industrial SATA3 240GB SSD x 2
	3.5" HDD	Enterprise SATA3 4TB 7200rpm HDD x 4	Enterprise SATA3 4TB 7200rpm HDD x 4	Enterprise SATA3 4TB 7200rpm HDD x 4
	Server Configuration in rack	All in one node x 1	All in one node x 1	All in one node x 1
	OS Support in VM	Windows	-	-
Linux		-	-	-
Security	Anti-Virus	Optional	Optional	Optional
Networking	Networking	10GbE SPF + x 4, 1GbE RJ45 x 2, IPMI (1GbE RJ45) x 1	10GbE SPF + x 4, 1GbE RJ45 x 2, IPMI (1GbE RJ45) x 1	10GbE SPF + x 4, 1GbE RJ45 x 2, IPMI (1GbE RJ45) x 1
	Network switch	Optional	Optional	Optional
Server Selection	Server in rack	SKY-7221 x 1	SKY-7221 x 1	SKY-7221 x 1
Server Product Photo		