

# SKY-7210

## 2U Rackmount Hybrid Network Server with Intel® Xeon® Processor Scalable Family, up to 3 NMC slots



### Features

- 2 x Intel® Xeon® Scalable Processors Platinum 8100, Gold 6100 & 5100, Silver 4100 and Bronze 3100
- 24 x DDR4 2133/2400/2666 ECC registered memory up to 1536GB
- C621 or C622 PCH w/ 2x10G SFP+ support
- 3 x NMC (Network Mezzanine Card) slots for a wide range of GbE, 10GbE, 40GbE and 100GbE NMCs with or without Advanced LAN bypass
- Optional support 3 x HDD kit (for 2.5" HDD) on the NMC slots
- Max. up to 6 x PCIe8 (FH/HL) or 3 x PCIe16 (FH/FL) slots by SKUs option
- 12 x 3.5"/2.5" removable external SATA/SAS HDDs/SSDs
- 1 x M.2 2280 SSD
- IPMI 2.0 compliant Remote Management

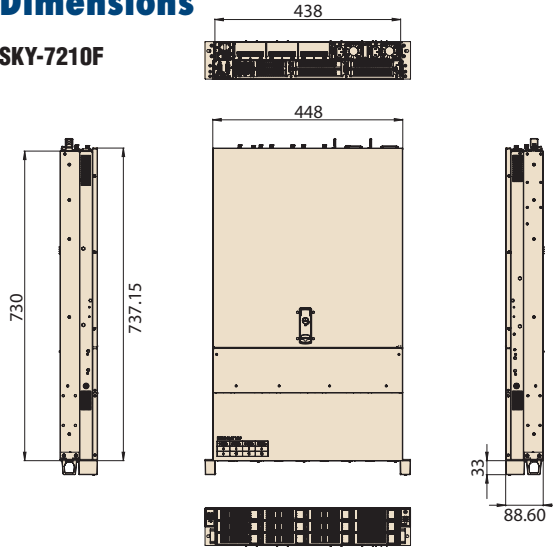


### Specifications

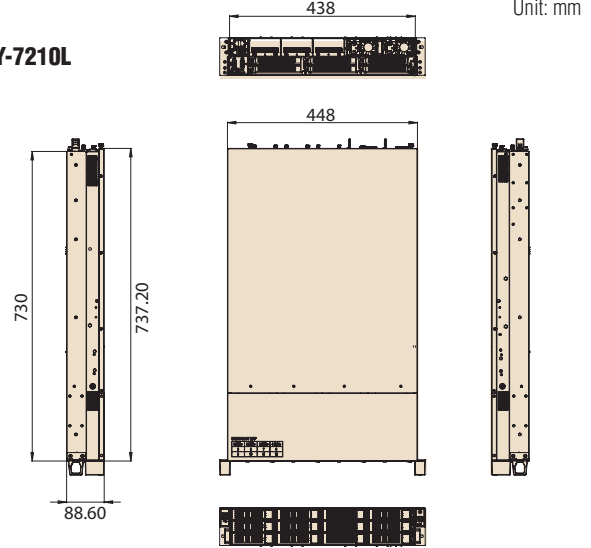
System P/N		SKY-7210F	SKY-7210L
Form Factor		2U - Rack Mount	2U - Rack Mount
Processor System	Processor	2 x Intel® Xeon® Scalable Processors Platinum 8100, Gold 6100 & 5100, Silver 4100 and Bronze 3100 Max. up to 205W	
	Core Number	8C/10C/12C/14C/16C/18C/20C/22C/24C/26C/28C	
	Frequency	2.0GHz/2.1GHz/2.2GHz/2.3GHz/2.4GHz/2.6GHz/3.0GHz/3.2GHz/3.4GHz	
	L2 Cache	30MB ~ 75 MB	
	Chipset	C622 (without QAT)	C621 (without QAT)
	BIOS	AMI EFI 64Mbit	
Virtualization		VT-d	
Memory	Technology	DDR4, 2133/2400/2600MHz	
	Max. Capacity	1563GB (CPU0x12,CPU1x12)	
	Socket	24 x 288-pin RDIMM	
	ECC Support	Yes	
Networking	Controller	3 x Intel I210-AT	
	1GbE	2 x 1GbE RJ45 for management via Intel I210-AT, 1 x 1GbE RJ45 for IPMI	
	10GbE	2 x 10G SFP+ via PCH +CS4277 (10G Dual PHY)	None
	LAN bypass	None	
Expansion	PCIex8	2 x FH/FL + 2 x HH/HL	2 x FH/FL
	PCIex16	1 x FH/FL	2 x FH/FL
	NMC	3 x NMCs	
Storage	3.5"/2.5" HDD/SSD	12 x 2.5" HDD/SSD or 12 x 3.5" HDD/SSD	
	2.5" NVME	4 x 2.5" NVME (option) in front, 6 x 2.5" NVME (option) in rear by NMC slots	
	M.2	1 x (2280)	
I/O	Console port	1 (D-Sub)	
	USB2.0/3.0	2 x USB3.0 on board pin header 2 x USB3.0 ports in rear 2 x USB2.0 ports in front	
	LED Indicator	1 x PWR_LED, 1 x HDD_LED, 1 x Info_LED, 1 x ID_LED, 2 x LAN_LED(Mgmt)	
	VGA	1 (D-Sub)	
	Others	1 x Power button, 1 x Reset button, 1 x ID button	
	TPM	Trust Platform Module	Modularized TPM(1.2), Option: TPM(2.0)
LCD Module		None	
Power Supply	Power Type	Redundant AC PSU (redundant DC PSUs on request)	Redundant AC PSU (redundant DC PSUs on request)
	Watts	1200W	850W
	Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range
	Connector	AC 3pin plug	AC 3pin plug
Environment	Operating Temperature (air flow 0.7 m/sec)	0 ~ 40 °C (32 ~ 104 °F)	
	Non-operating Temperature	-20 ~ 80° C (-4 ~ 167° F) and 40° C @ 95% RH Non-Condensing	
	Vibration Resistance	With SATA HDD: 0.5 Grms, IEC 60068-2-64, 5-500Hz, 1hr/axis	
	Shock Protection	With SATA HDD: 10G, IEC-60068-2-27, half sine, 11ms duration	
Cooling		6 x system FAN with smart FAN control	
Mechanical	Construction	Iron	
	Mounting	2U Rackmount	
	Dimensions (W x H x D)	438 x 88 x 730 mm (17.24" x 3.46" x 28.74")	
	Weight	28 Kg	26 Kg
OS support		Linux (CentOS, Red Hat, Ubuntu), Windows server	
Advantech S/W Packages		- QuickStart Linux Image (CentOS based reference BSP) including	
		<ul style="list-style-type: none"> <li>AHG (Advantech health guide)</li> <li>ipmitool</li> <li>Imensors</li> <li>flashrom</li> <li>Advanced LBP Utility</li> </ul>	
		Individual packages: - Advanced LBP Library	
IPMI		Industry standard BMC, IPMI v2.0 compliant, with web interface, iKVM on request (AMI MegaRAC SP-X)	
Certification	EMC	CE/FCC/CB/UL/CCC	

## Dimensions

SKY-7210F

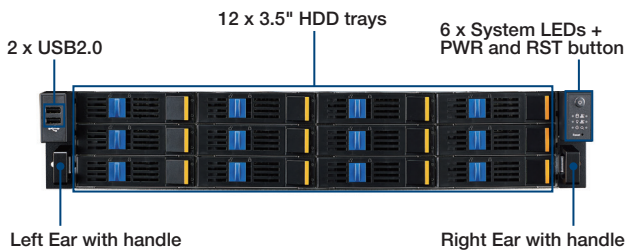


SKY-7210L

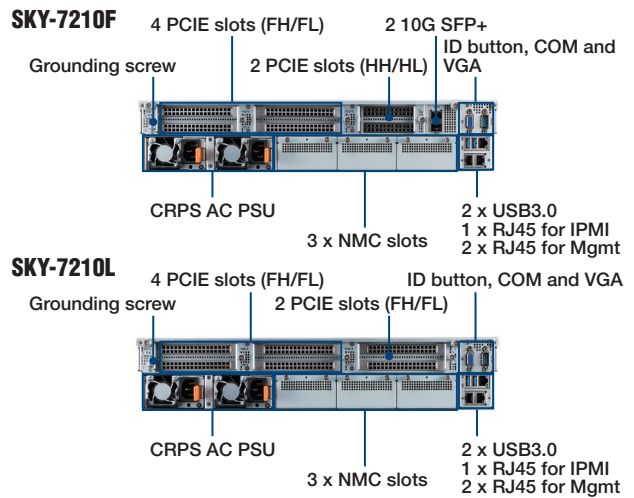


Unit: mm

### Front Panel External I/O Mechanical Layout/Drawing



### Rear Panel External I/O Mechanical Layout/Drawing



## Ordering Information

Part Number	CPU	DDR4	PCH	NMC slot	PCIe slot	HDD qty.	BMC	TPM	10G SFP+	GbE port	VGA	FAN module	PSU
SKY-7210F-00A1	2 sockets for Intel® Xeon® Scalable Processors	24	C622	3	2x 2PCIEx8 1x PCIe16 (FH/FL)	12 (3.5")	Yes	1.2	2	3 (2 for Mgmt, 1 for IPMI)	Yes	Swappable	1200W AC
SKY-7210L-00A1	2 sockets for Intel® Xeon® Scalable Processors	24	C621	3	1x 2PCIEx8 2x PCIe16 (FH/FL)	12 (3.5")	Yes	Option	N/A	3 (2 for Mgmt, 1 for IPMI)	Yes	Fixed	850W AC

## Packing List

Part no.	Description
1960081028N001	CPU Heatsink
1651003079-01	CPU Clip for Heatsink
1960083839N000	Bracket for FH/FL long PCIe card

## Optional Power Supply List

Part Number	Description
96PSRM-A1K2WCR	AC 1200W PSU CRPS module
XFWA-DPS800AB-14G	DC 800W PSU CRPS module
96PSRM-A850WCRP	AC 850W PSU CRPS module

## Optional Accessories

Part no.	Description
1702002600	Power cord 3P 180 cm, USA
1702002605	Power cord 3P 180 cm, Europe
1702031801	Power cord 3P 180 cm, UK
1700000237	Power cord 3P 180 cm, JP
1700009652	Power cord 3P 180 cm, China
1700027969-01	Power cable for GPU card
968AE00029	Slide rail kit