IoT SuperServer SYS-210P-FRDN6T





Key Applications

- 5G Core and Edge
- Al Inference and Machine Learning
- Network Function Virtualization
- Cloud Computing

Key Features

1. Single Socket P+ (LGA-4189) 3rd Generation Intel® Xeon® Scalable Processors

2. 8 DIMM slots; Up to 2TB 3DS ECC DDR4-3200: RDIMM/LRDIMM/Intel® DCPMM

- 3. Up to 3 PCI-E 4.0 FHHL & 2 HHHL expansion slots for Accelerator Add-On-Cards
- 4. Onboard 2x 10GbE ports & 4x 1GbE ports
- 5. 2x Internal 2.5" drive bays for SATA drives
- 6. Redundant 600W DC -48V Power Supplies
- 7. Ultra short depth, 2U Front I/O Edge Server





Specifications

Product SKUs

SYS-210P-	SuperServer SYS-210P-FRDN6T
FRDN6T	(Silver/Black)

Motherboard

Super X12SPM-LN6TF

Processor

CPU	 Support CPU TDP 85-270W

System Memory

Memory	 Memory Capacity: 8 DIMM slots Memory Type: 3200MHz ECC DDR4 RDIMM/LRDIMM
Memory Voltage	∎ 1.2 V
Error Detection	∎ ECC

On-Board Devices

SATA	SATA3 (6Gbps); RAID 0/1 support
Chipset	∎ Intel® C621A
Network Connectivity	 2x 1/10GbE port(s); 4x 1GbE port(s)
IPMI	 Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

Input / Output

USB	 2 USB 2.0 port(s) (2 front) 2 USB 3.0 port(s) (2 front)
Video	1 VGA port(s)
Serial Port	1 COM Port(s) (1 rear)

Management

Software	 SUM SSM Redfish API IPMI 2.0 Intel® Node Manager SPM KVM with dedicated LAN NMI Watch Dog SuperDoctor® 5
Power Configurations	 ACPI Power Management

PC Health Monitoring

CPU	Monitors for CPU Cores, Chipset
	Voltages, Memory

https://www.supermicro.com/en/products/system/loT/2U/SYS-210P-FRDN6T
https://www.supermicro.com/en/products/system/101/20/313-210F-1 KDN01

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Form Factor	2U Rackmount
Model	∎ CSE-211M

Dimensions and Weight

Height	∎ 3.5" (88.9mm)
Width	∎ 17.2" (436.88mm)
Depth	∎ 11.8" (298.8mm)
Package	∎ 7.4" (H) x 19.3" (W) x 23.3" (D)
Weight	 Net Weight: 17 lbs (7.7 kg) Gross Weight: 22 lbs (10 kg)
Available Color	Silver/Black
Front Panel	
Buttons	Power On/Off

	Duttons	■ UID button
LEDS HDD activity LAN1 activity LAN2 activity Power status System information	LEDs	LAN1 activityLAN2 activityPower status

Expansion Slots

PCI-Express (PCI-E)	 Slot 1: PCle 4.0 x16 or x8 slot (low profile) Slot 2: PCle 4.0 x16 x8 slot (low profile will be disabled if slot 1 is configured as PCle 4.0 x16) Slot 3: 1 PCl-E 4.0 x8 FHHL (optional if CPU is less than 165W with 1U heat sink)
	Slot 5: 1 PCI-E 4.0 x16 FHHL
	Slot 6: 1 PCI-E 4.0 x16 FHHL

Drive Bays / Storage

Hot-swap	■ 2x 2.5" hot-swap SATA drive bays		
M.2	 1 M.2 NVMe OR 1 M.2 SATA3 M-Key, 2280/22110 		

System Cooling

Fans	4 heavy duty fans with optimal fan
	speed control

Power Supply

600W Redundant DC -48V Power Supplies with PMBus				
Total Output Power	∎ 600W : (-44) - (-65) Vdc			
Dimension	∎ 54.5 x 40 x 220 mm			
(W x H x L)				
+12V	∎ Max: 50A			
5V SB	Max: 3A / Min: 0A			

SYS-210P-FRDN6T | 2U | SuperServer | Products | Super Micro Computer, Inc.

 Non-operating Relative Humidity: 5% to 95% (non-condensing)

 Pulse Width Modulated (PWN fan connectors 	 Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors 	Certification	[<u>Test Report</u>]
	 Status monitor for speed control 		
· · · · · · · · · · · · · · · · · · ·	CPU thermal trip support, PEPI	Operating Enviro	nment
	 Monitoring for CPU and chassis environment 	Environmental Spec.	 Operating Temperature: 0°C ~ 35°C (41°F ~ 95°F)
		·	 Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)
			 Operating Relative Humidity: 8% to 90% (non-condensing)

Parts List

Parts List - (Items Included)

	Part Number	Qty	Description	
Motherboard / Chassis	MBD-X12SPM-LN6TF	1	Super X12SPM-LN6TF Motherboard	
	CSE-211M	1	2U Chassis	
Backplane	BPN-SAS3-826TQ- B2B	1	2-port 2U SAS3 12Gbps backplane, support up to 2x 2.5-inch SAS3/SATA3 HDD/SSD	
Cable 1	CBL-0010L	1	9 PIN SERIAL PORT DTK CABLE, LF	
Cable 2	CBL-0206L	2	48CM SATA ROUND S-S PBF	
Cable 3	CBL-CDAT-0662	1	8 Pin to 8 Pin Round SGPIO Cable, 61.5cm, 28AWG, Pinout 1-1	
Cable 4	CBL-PWCD-0974	2	48VDC input power cable, 2M, 12AWG, 3 wires, RoHS/REACH,RoHS	
Cable 5	CBL-PWEX-1132-20	1	[NR]MicroHi 2x2F to 2x2M MicroFit, all PH3.0 ,20cm,8.5A/p,18	
Cable 6	CBL-SAST-1206LP-85	1	SlimSASLP x8 (RA) to SlimSAS x8 (STR),26CM,85 OHM,RoH	
Cable 7	CBL-SAST-1207LP-85	1	SlimSASLP x8 (STR,RSC) to SlimSAS x8 (STR),26CM,85 OHM	
Cable 8	CBL-SAST-1270A-85	1	2x PCIe x16 on riser PCBA to 2x x16 edge cards,90CM,RoH	
Power Distributor	PDB-PT211M-3424	1	2U support redundancy powers up to 800W for SC211M with Mi	
Power Distributor	PDB-PT211M-8824	1	2U support redundancy powers up to 800W for SC211.,RoHS	
Power Supply	PWS-601S-1R	2	1U 600W Redundant DC48V input w/PMBus power supply, W54.5xH4	
Riser Card	RSC-H2-68G4	1	2U LHS Hyper riser card with one PCI-E 4.0 x16 and one PCI-E	
Software SFT-OOB-LIC 1 License key for enab		License key for enabling OOB BIOS management		
Heatsink / Retention	SNK-P0078P	1	2U Passive CPU Heat Sink for X12 Generation Intel Whitley and Cedar Island Platforms	
*Cable 9	CBL-CDAT-1058	1	[NR] NCSI 2x8 to 2x8, Ph2.54, 60cm shielded,28AWG, RoHS,RoHS	
*FAN 1	FAN-0220L4	4	80x80x38 mm, 14.9K RPM Exhaust Fan for SYS-120P- FRDN6T Serve	
*Front Panel	FPB-TB826	1	16 pin Cable Adaptor Board for SC826	
*Drive Tray(s)	MCP-220-00147-0B	2	Black gen-3 hot-swap 2.5"; Tool-less HDD tray (clip design)	
*Rail Set	MCP-290-21106-0N	1	1U height sliding rail for SC211M chassis	

Notes:

 Parts with * are inside the chassis
 Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.