

GPU SuperServer SYS-210GP-DNR (Complete System Only)

NEW

2U 2-Node Multi-GPU System with Single Processor (Intel) and Up to 6 PCI-E GPUs per Node



Key Applications

- High Performance Computing
- AI/Deep Learning Training
- Media/Video Streaming
- Industrial Automation, Retail
- Cloud Gaming

Key Features

Two hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:

1. Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processor
2. Intel® C621A Chipset
3. 2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs
4. 3 PCI-E Gen 4.0 x16 FHFL DW
5. 2 front Hot-swap 2.5" U.2 NVMe Gen4 drive bays
2 M.2 NVMe and SATA for boot drive only
6. 2600W Redundant (1+1) Power Supplies Titanium Level (96%) (Full redundancy based on configuration and application load)
7. AST2500 BMC

Specifications

Product SKUs

SYS-210GP-DNR	<ul style="list-style-type: none"> SuperServer SYS-210GP-DNR (Black Front & Silver Body)
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Motherboard

Super X12SPG-NF

Processor (per Node)

CPU	<ul style="list-style-type: none"> Single Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Support CPU TDP 270W
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Cores	<ul style="list-style-type: none"> Up to 40C/80T; Up to 60MB Cache
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GPU

GPU-GPU Interconnect	<ul style="list-style-type: none"> PCI-E
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System Memory (per Node)

Memory	<ul style="list-style-type: none"> Memory Capacity: 8 DIMM slots Up to 2TB: 8x 256 GB DRAM Memory Type: 3200/2933/2666MHz ECC DDR4 RDIMM/LRDIMM
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Memory Voltage	<ul style="list-style-type: none"> 1.2 V
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Error Detection	<ul style="list-style-type: none"> ECC
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On-Board Devices (per Node)

Chipset	<ul style="list-style-type: none"> Intel® C621A
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Network Connectivity	<ul style="list-style-type: none"> Via AIOM
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IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
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Input / Output (per Node)

Video	<ul style="list-style-type: none"> 1 VGA port(s)
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System BIOS

BIOS Type	<ul style="list-style-type: none"> AMI 32MB SPI Flash EEPROM
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Management

Chassis

Form Factor	<ul style="list-style-type: none"> 2U Rackmount
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Model	<ul style="list-style-type: none"> CSE-227GTS-R2K63P
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Dimensions and Weight

Height	<ul style="list-style-type: none"> 3.47" (88mm)
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Width	<ul style="list-style-type: none"> 17.6" (447mm)
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Depth	<ul style="list-style-type: none"> 29.9" (760mm)
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Package	<ul style="list-style-type: none"> 9.44" (H) x 23.62" (W) x 43.3" (D)
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Weight	<ul style="list-style-type: none"> Net Weight: 55 lbs (24.94 kg) Gross Weight: 60 lbs (27.21 kg)
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Available Color	<ul style="list-style-type: none"> Black Front & Silver Body
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Front Panel

Buttons	<ul style="list-style-type: none"> Power On/Off button System Reset button
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LEDs	<ul style="list-style-type: none"> Hard drive activity LED Network activity LEDs Power status LED System Overheat & Power Fail LED
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Expansion Slots (per Node)

PCI-Express (PCI-E)	<ul style="list-style-type: none"> Slot 1: PCI-E 4.0 x16 FHFL DW Slot 2: PCI-E 4.0 x16 FHFL DW Slot 3: PCI-E 4.0 x16 FHFL DW
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Drive Bays / Storage (per Node)

Hot-swap	<ul style="list-style-type: none"> 2x 2.5" hot-swap NVMe Support drive bays (2x 2.5" NVMe dedicated)
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M.2	<ul style="list-style-type: none"> 2 M.2 NVMe OR 2 M.2 SATA3
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System Cooling

Fans	<ul style="list-style-type: none"> 4 Removable heavy-duty Fan(s)
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Power Supply

2600W Redundant Power Supplies with PMBus

Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 265 mm
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AC Input	<ul style="list-style-type: none"> 2600W: 200-240Vac / 15A Max
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DC Input	<ul style="list-style-type: none"> 2600W: 200-240Vdc For CQC Only/ 15A Max / 50-60Hz
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+12V	<ul style="list-style-type: none"> Max: 216A / Min: 0A (11.4Vdc-12.6Vdc) (12V output)
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Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
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Certification	<ul style="list-style-type: none">   Titanium Level
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[[Test Report](#)]

Software

- OOB Management Package (SFT-OOB-LIC)
- Redfish API
- IPMI 2.0
- SSM
- Intel® Node Manager
- SPM
- KVM with dedicated LAN
- SUM
- NMI
- Watch Dog
- SuperDoctor® 5

Power Configurations

- ACPI Power Management
- Power-on mode for AC power recovery

PC Health Monitoring

CPU

- 7 +1 Phase-switching voltage regulator
- Monitors for CPU Cores, Chipset Voltages, Memory

FAN

- Fans with tachometer monitoring
- Pulse Width Modulated (PWM) fan connectors
- Status monitor for speed control

Temperature

- Monitoring for CPU and chassis environment
 - Thermal Control for fan connectors
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Operating Environment

Environmental Spec.

- Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)
 - Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
 - Operating Relative Humidity: 8% to 90% (non-condensing)
 - Non-operating Relative Humidity: 5% to 95% (non-condensing)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X12SPG-NF	2	Super X12SPG-NF Motherboard
	CSE-227GTS-R2K63P	1	2U Chassis
Cable 1	CBL-CDAT-1056	1	2x5,PH2.54 to 2x5,PH2.54,7cm,28AWG,RoHS
Cable 2	CBL-PWCD-0376-IS	2	PWCD,US,IEC60320 C19 TO C20,940mm (3ft),14AWG,15A,250V,Black
Cable 3	CBL-PWEX-1093-36	2	MicroFit,2x2, P3.0,F to MicroFit,2x2,P3.0,F,36CM,10A/pin
Cable 4	CBL-PWEX-1148-20	2	MicroHi,2x4,PH3. to 2x4,PH4.2,MiniFit,20CM,8.5A/p,18AWG,
Cable 5	CBL-PWEX-1148-50	4	MicroHi,2x4,PH3. to 2x4,PH4.2,MiniFit,50CM,8.5A/p,18AWG,
Cable 6	CBL-PWEX-1257	1	2x4,PH3.0 to 2x4,PH3.0,7CM,4A,22AWG,RoHS
Cable 7	CBL-SAST-1235-85	2	Slimline x8 (STR) to Slimline x8 (STR),INT,35CM,85 OHM
Fan Holder	MCP-220-82620-0N	2	Dual 2.5 NVMe4 Drive Kit for 216B/826B/417B/846X/847B,RoHS
Air Shroud	MCP-310-22711-0B	2	Mylar air shroud sets X12SPG-NF for SC227G(3x GPU)
Riser Card	RSC-GB-6G4	2	1U Rear LHS GPU riser card with one PCI-E4.0x16 slot,HF,Ro
Riser Card	RSC-GF-6G4	4	1U Front LHS GPU Riser card with one PCI-E4.0x16slot,HF,R
Storage Controller Card	SCC-P2N2FG-P1A-A	1	PDB with 2x NVMe, paired with SCC-P2N2FG-P1A-B
Storage Controller Card	SCC-P2N2FG-P1A-B	1	PDB with 2x NVMe, paired with SCC-P2N2FG-P1A-A
Software	SFT-OOB-LIC	2	License key for enabling OOB BIOS management
Heatsink / Retention	SNK-P0077V	2	X12 ICX/CPX CPU Heatsink (78x113x25.5mm), VC Base, Cu Fin
*Power Supply	PWS-2K63A-1R	2	1U 2600W redundant single output power supply with wide range in
*Cable 8	CBL-PWEX-1251	2	[NR] FAN,2x4 to 2x 1x4 and 1x4,5A/pin,42.5CM,22/24AWG
*Cable 9	CBL-PWEX-1252	2	[NR] FAN,2x4 to 2x 1x4 and 1x4,5A/pin,58CM,22/24AWG
*FAN 1	FAN-0219L4	4	80x80x80 mm, 14.2K-15K RPM Counter-rotating, Hot-swappable F
*Front Panel	FPB-FP827BR	1	2U BigTwin front control board - right side
*Rail Set	MCP-290-00144-0N	1	2U fixed rail set, quick release, default for 2,3U 17.6"W
*Front Panel	FPB-FP827BR	1	2U BigTwin front control board - right side
*Rail Set	MCP-290-00145-0N	1	Left fixed rail (quick) for 2U 17.6";W chassis
*Rail Set	MCP-290-00146-0N	1	Right fixed rail (quick) for 2U 17.6";W chassis

Notes:

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