

SuperServer 2029P-TXRT



Integrated Board

[Super X11DPX-T](#)

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Key Features

- Industrial Server Solutions
- Networking Telephony
- Surveillance DCR
- GPU Pass-through VM server
- Flash Array Server
- Head-node Controller

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
2. Up to 2TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 16 DIMM slots
3. 2 PCI-E 3.0 x16 slots (HSSI), 2 PCI-E 3.0 x16 slots (or 4 PCI-E 3.0 x8), 4 PCI-E 3.0 x8 slots, 1 PCI-E 3.0 x4 (in x8 slot)
4. 16 Hot-swap 2.5" SAS/SATA drive bays, 1 slim DVD-ROM drive bay
5. 2x 10GbBase-T ports via Intel X550-AT2
6. Integrated IPMI 2.0 with KVM and Dedicated LAN
7. 1 PCI-E 3.0 x4 M.2 2280 slot from PCH
8. 4 middle fans
9. 1000W Redundant Power Supplies Titanium Level (96%)

Note: Image above may show a varied configuration or optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

- SYS-2029P-TXRT
 - SuperServer 2029P-TXRT (Black)

Motherboard

[Super X11DPX-T](#)

Processor/Cache

- CPU
 - Dual Socket P (LGA 3647)
 - Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
 - Support CPU TDP 205W

- Cores
 - Up to 28 Cores with Intel® HT Technology

System Memory

- Memory
 - 16 DIMM slots
 - Up to 2TB ECC 3DS LRDIMM, 512GB

Chassis

- Form Factor
 - 2U Rackmount
- Model
 - [CSE-213XAC-R1K05LP](#)

Dimensions



- Width
 - 17.2" (437mm)
- Height
 - 3.5" (89mm)
- Depth
 - 25.6" (650mm)
- Package
 - 14.8" (H) x 27" (W) x 37.3" (D)
- Weight
 - Net Weight: 36 lbs (16.4 kg)
 - Gross Weight: 72 lbs (32.7 kg)

- Available Colors
 - Black

Front Panel

- Buttons
 - Power On/Off button
 - System Reset button

Capacity	ECC RDIMM, DDR4 up to 2666MHz
Memory Type	<ul style="list-style-type: none"> 2666/2400/2133MHz ECC DDR4 SDRAM
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C621 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1, 5, 10
Network Controllers	<ul style="list-style-type: none"> Intel® X550-AT2 Dual Port 10GBase-T
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
Graphics	<ul style="list-style-type: none"> ASPEED AST2500 BMC
Input / Output	
Serial ATA	<ul style="list-style-type: none"> 8 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 10GBase-T ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear) 2 USB 2.0 ports (rear)
Serial Port / Header	<ul style="list-style-type: none"> 1 COM port (rear)
VGA	<ul style="list-style-type: none"> 1 VGA port
DOM	<ul style="list-style-type: none"> 2 SuperDOM (Disk on Module) ports
TPM	<ul style="list-style-type: none"> 1 TPM 2.0 Header
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI UEFI
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN NMI SSM, SPM, SUM SuperDoctor® 5
Power Configurations	<ul style="list-style-type: none"> ACPI Power Management
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

LEDs	<ul style="list-style-type: none"> Power status LED Hard drive activity LED Network activity LEDs System information (overheat/UID) LED Power fail LED
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 2 PCI-E 3.0 x16 slots (HSSI) 2 PCI-E 3.0 x16 slots (or 4 PCI-E 3.0 x8 by MUX) 4 PCI-E 3.0 x8 slots 1 PCI-E 3.0 x4 (in x8 slot)
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 16 Hot-swap 2.5" drive bays 10 SATA3 ports by default Optional drive support: 16 SAS3 <p>Note: optional storage card is required to support more than 10 drives</p>
Peripheral Bay	
Peripheral	<ul style="list-style-type: none"> 1 slim DVD-ROM drive
Backplane	
1 SAS/SATA backplane	
System Cooling	
Fans	<ul style="list-style-type: none"> 4 Middle fans
PowerStick Power Supply	
1000W 1U Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 800W/1000W
Dimension (W x H x L)	<ul style="list-style-type: none"> 38 x 40 x 360 mm
Input	<ul style="list-style-type: none"> 100-127Vac / 9-7.5A / 50-60Hz 200-240Vac / 6-5A / 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 66.7A / Min: 0A (100-127Vac) Max: 83A / Min: 0A (200-240Vac)
+5Vsb	<ul style="list-style-type: none"> Max: 4A / Min: 0A
Output Type	<ul style="list-style-type: none"> Gold Finger Connector (16 Power Pin, 14 Signal Pin)
Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level (Cert. in progress)
Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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)

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPX-T	1	Super X11DPX-T Motherboard
	CSE-213XAC-R1K05LP	1	2U Chassis
Backplane	BPN-SAS3-213A	1	16-port 2U SAS3 12Gbps direct-attached backplane, support up to 16x 2.5-inch SAS3/SATA3 HDD/SSD
Cable 1	CBL-SAST-0508-01	2	MINI SAS HD-MINI SAS,6G,INT,50CM,SB,30AWG
Parts	MCP-260-00042-2N	1	STD I/O shield for X9/X10/X11 server MB with EMI Gasket & Mylar
Air Shroud	MCP-310-00082-0B	1	Mylar Air Shroud for SC213X (X11DPX)
Parts	MCP-450-00003-0N	1	Plastic M.2 holder kit for X11 MB
Manual	MNL-2081-QRG	1	2029P-TXRT Quick Reference Guide
Heatsink / Retention	SNK-P0068PS	2	2U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-1K05A-1R	2	1U 1000W Redundant Power Supply Titanium, 38X40X360mm length
FAN 1	FAN-0190L4	4	80x80x38 mm, 10.5K RPM, Middle Cooling Fan for SC213X Chassi

Optional Parts List			
	Part Number	Qty	Description
Slim DVD Kit	MCP-220-81502-0N	-	Slim SATA DVD mounting kit for SC213,219,813,815,818,819,825,828,829,836,842
5.25" DVD kit	MCP-220-00006-00	-	5.25" drive rail set
USB 2.0/COM port tray	MCP-220-00007-01	-	Black USB2.0 /COM port tray (mount with Slim DVD Kit)
USB 3.0/COM port tray	MCP-220-00114-0N	-	Black 2x USB3.0/COM port tray (mount with Slim DVD Kit)
Mobile Rack	CSE-M14TQC & CBL-SAST-0699	-	Black SAS3/SATA3 Mobile Rack for 4x 2.5 (mount with 5.25" DVD kit); internal mini SAS HD to 4 SATA 12G, 75/75/90/90cm w/75cm SB, S. 30AWG
Storage Control Card and Cable(s)	AOC-S3008L-L8e & 2x CBL-SAST-0593	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 122HDD, HBA; Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s
Storage Control Card and Cable(s)	AOC-S3008L-L8i & 2x CBL-SAST-0593	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 63HDD, RAID 0,1,1E; Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s
Storage Control Card and Cable(s)	AOC-S3108L-H8iR & 2x CBL-SAST-0593	-	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 240HDD, RAID 0, 1, 5, 6, 10, 50, 60; Internal Mini-SAS HD to Mini-SAS HD 60cm,30AWG,12Gb/s
CachVault	BTR-TFM8G-LSICVM02	1	Supercap 8GB CV + BKT-BBU-BRACKET-05 or MCP-240-00127-0N x1
	BKT-BBU-BRACKET-05	1	Mounting PCIe Card
	MCP-240-00127-0N	1	SuperCap tray for 2.5" HDD
P4 GPU kit	MCP-310-00085-0B	1	Mylar Air Shroud(GPU) and air block for SC213X (X11DPX)
	MCP-310-00086-0B	1	Mylar Air dummy(GPU) for SC213X
AOC	AOC-VROCPREMOD	-	Intel VROC Premium, RAID 0, 1, 5, 10
	AOC-VROCSTNMOD	-	Intel VROC HW key (RSTe) standard upgrade module
	AOC-VROCINTMOD	-	Intel VROC, RAID 0, 1, 5, 10 (Intel SSD Only)
TPM security module (optional, not included)	AOM-TPM-9670V	-	TPM module (Vertical) TPM 2.0
	AOM-TPM-9671V	-	TPM module (Vertical) TPM 1.2.
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)