

SuperServer 5018D-MHR7N4P

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

Key Features

- Hyper-Converged Appliance**
Enterprise Server
Edge Computing Server
Private Cloud Server
Virtualization Server
1. Intel® Xeon® processor D-1537, Single socket FCBGA 1667; 8-Core, 16 Threads, 35W
 2. 4 Hot-swap 3.5" SATA3/SAS2 drive bays via Broadcom 2116
 3. 1 PCI-E 3.0 x8 full height slot, M.2 PCIe 3.0 x4, M Key 2242/2280/ 22110, Mini-PCIe w/ mSATA support
 4. Up to 128GB ECC RDIMM DDR4 2133MHz or 64GB ECC/non-ECC UDIMM in 4 slots
 5. Dual 10G SFP+ and dual 1GbE LAN
 6. 2 USB 3.0 ports (rear), 5 USB 2.0 (4 via headers, 1 Type A)
 7. 3x 40x28mm PWM fans for CPU and memories; 1x 40x28mm PWM fan for AOC
 8. 400W High-efficiency redundant short depth Power Supplies

Specifications ^

Product SKUs	
SYS-5018D-MHR7N4P	SuperServer 5018D-MHR7N4P (Silver)
Motherboard	
Super X10SDV-7TP4F	
Processor/Cache	
CPU	Intel® Xeon® processor D-1537, 1.7GHz-2.3GHz; CPU TDP support 35W FCBGA 1667
Cores / Cache	8 Cores, 16 Threads / 12MB
System Memory	
Memory Capacity	4x DDR4 DIMM sockets Supports up to 128GB DDR4 ECC RDIMM Supports up to 64GB DDR4 ECC/non-ECC UDIMM
Memory Type	2133/1866/1600MHz ECC DDR4 ECC RDIMM and ECC/Non-ECC UDIMM
DIMM Sizes	32GB, 16GB, 8GB, 4GB
Memory Voltage	1.2 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	System on Chip
SATA/SAS	SoC controller for 4 SATA3 (6Gbps) ports; RAID 0,1,5,10 RSTe Broadcom 2116 (IT mode) SW controller for 16 SATA3 (6Gbps) ports; SAS2 and SATA3
Network Controllers	Dual 10G SFP+ from D-1500 SoC Dual 1GbE with Intel I210
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Video	Asped AST2400
Input / Output	
LAN	2x 10G SFP+ LAN ports 2x 1GbE LAN ports 1 Dedicated IPMI LAN port
USB	2 USB 3.0 ports (rear), 5 USB 2.0 (4 via headers and 1 Type A)
Video	1 VGA port
DOM	2 SuperDOM (Disk on Module) power connectors
TPM	TPM 2.0 header

Chassis	
Form Factor	1U Rackmount
Model	CSE-813MFTQC-R407CB
Dimensions and Weight	
Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	19.85" (503mm)
Gross Weight	Net Weight: 20 lbs (9.07kg) Gross Weight: 33 lbs (14.97kg)
Front Panel	
Buttons	Power On/Off button
LEDs	Network activity LEDs
Expansion Slots	
PCI-E	1 PCI-E 3.0 x8 Full-height slot M.2 PCIe 3.0 x4, M Key 2242/2280/22110 Mini-PCIe with mSATA support
Drive Bays	
Internal	4 Hot-swap 3.5" SATA3/SAS2 drive bays (optional cable needed)
System Cooling	
Fans	4 fans (default), may install up to 6 fans
AC/DC240V Input Redundant Power Supplies	
400W 1U Redundant Power Supplies with PMBus	
Total Output Power	400W
Dimension (W x H x L)	54.5 x 40 x 220 mm
Input	100 - 240Vac / 6.0 - 3.0A / 50-60Hz 200 - 240Vdc / 3.4 - 3.2A (CCC Only)
+12V	Max: 33A / Min: 0.5A
+5V sb	Max: 3A / Min: 0A
Output Type	Gold Finger Connector Mating with Molex 45984-4343
Certification	 Platinum Level Certified [Test Report]
System BIOS	
BIOS Type	128Mb SPI Flash with AMI BIOS
BIOS Features	PCI 3.0 ACPI 5.0 USB Keyboard support Hardware BIOS Virus protection SMBIOS 2.8 UEFI 2.4 RTC (Real Time Clock) Wakeup
Operating Environment / Compliance	
RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 10°C to 40°C (50°F to 104°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List ^

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SDV-7TP4F	1	Super X10SDV-7TP4F Motherboard
	CSE-813MFTQC-R407CB	1	1U Chassis
Backplane	BPN-SAS3-815TQ	1	1U 4-Port 12Gbps Backplane Support 4x3.5
Cable 1	CBL-0157L	1	CBL,SGPIO,2X4F TO 2X4F,P2.54,RIBBON IN RND TUBE,40CM,28AWG
Cable 2	CBL-0180L-01	1	SATA,INT,ROUND,SET OF 4,ST-RA 70/59/48/38CM,26AWG
Parts	MCP-120-00031-0N	1	Riser card bracket for SC812,813,813M,815,111,113,113M
Parts	MCP-260-00099-0N	1	1U I/O Shield for A2SDi-TP8F with EMI Gasket
Riser Card	RSC-RR1U-E8	1	RSC-RR1U-E8
Power Supply	PWS-407P-1R	2	AC and DC 240V Input, 400W, Platinum Level, Redundancy power supply meet PMBus Revision 1.2 requirement,RoHS/REACH
FAN 1	FAN-0154L4	4	40x40x28 mm, 22.5K RPM, SC813MF Middle Cooling Fan,RoHS/REACH

Optional Parts List			
	Part Number	Qty	Description
Power Supply	PWS-601D-1R	-	-48V DC input, 12V and 5Vsb 600W output for 1U redundancy
Air Shroud for NVMe M.2	MCP-310-00083-0B	-	Air Shroud for NVMe M.2
Tray	MCP-220-00110-0B	1	Black USB/COM port tray in slim DVD bay,RoHS/REACH,PBF
Tray	CSE-PT40L-B0	1	Black USB/COM port tray for slim FDD bay
MiniSAS HD cable	CBL-SAST-0811	1	MINI SAS HD-4 SATA (RA),12G,INT,50/50/60/70,70CM SB,30AWG,RoHS/REACH
Cable Arm	MCP-290-00086-0N	1	Cable Management Arm for 1U ball bearing chassis SC801S/801L
SuperDOM	-	-	Supermicro SATA DOM Solutions [Details]

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