SuperServer 5018D-MTRF

Integrated Board

Super X10SLM-F

Available Colors: Black

Key Features

1. Single socket H3 (LGA 1150) supports Intel® Xeon® E3-1200 v3/v4, 4th gen. Core i3, Pentium, Celeron processors
2. Intel® C224 Express PCH
3. 4x 3.5" Hot-swap SATA3 HDD bays
4. 1x PCI-E 3.0 x8 (in x16) Full-height slot
5. Up to 32GB DDR3 ECC 1600MHz UDIMMs in 4 sockets
6. Dual Gigabit Ethernet LAN ports (1x Intel® i217LM & 1x Intel® i210AT)
7. IPMI 2.0 on Dedicated LAN port
8. 400W Redundant Power Supplies Optional Battery Backup Power (BBP®)

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

Specifications

Product SKUs	
SYS-5018D-MTRF	• SuperServer 5018D-MTRF (**Black**)

Motherboard
Super X10SLM-F

Processor/Cache	
CPU	• Intel® Xeon® processor E3-1200 v3/v4 family, 4th Gen Core i3, Pentium, Celeron processors • Socket H3 (LGA 1150)

System Memory	
Memory Capacity	• 4x 240-pin DDR3 DIMM slots • Supports up to 32 GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	• 1600MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	• 8GB, 4GB, 2GB, 1GB
Memory Voltage	• 1.5 V
Error Detection	• Corrects single-bit errors • Detects double-bit errors (using ECC memory)

Chassis	
Form Factor	• 1U Rackmount
Model	• CSE-813MTQ-R400CB

Dimensions and Weight	
Height	• 1.7" (43mm)
Width	• 17.2" (437mm)
Depth	• 19.8" (503mm)
Weight	• Gross Weight: 31.4 lbs (14.3 kg) • Net Weight: 18.6 lbs (8.5 kg)
Available Colors	• Black

Front Panel	
Buttons	• Power On/Off button • System Reset button
LEDs	• Power LED • Hard drive activity LED • 2x Network activity LEDs • System Overheat LED
Ports	• 2x USB ports • 1x Serial COM Port

Expansion Slots	
PCI-Express	• 1x PCI-E 3.0 x8 (in x16) Full-height slot

On-Board Devices

Chipset	■ Intel® C224 Express PCH
SATA	■ SATA3 (6Gbps) w/ RAID 0, 1, 10, 5 ■ SATA2 (3Gbps) w/ RAID 0, 1
IPMI	■ Support for Intelligent Platform Management Interface v.2.0 ■ IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ■ ASPEED AST2400 BMC with 10/100/1000Mbps
Network Controllers	■ Intel® i217LM + Intel® i210AT Controllers ■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ■ 1x Realtek RTL8201N PHY (dedicated IPMI)
VGA	■ ASPEED AST2400 BMC

Input / Output

Serial ATA	■ 4x SATA3 (6Gbps) ports ■ 2x SATA2 (3Gbps) ports ■ SATA DOM Power Connector
LAN	■ 2x RJ45 LAN ports ■ 1x RJ45 Dedicated IPMI LAN port
USB	■ 4x USB 3.0 ports (1 Type-A, 2+1 via header) ■ 6x USB 2.0 ports (4 rear, 2 via header)
VGA	■ 1x VGA port
Serial Port / Header	■ 1x Fast UART 16550 serial port ■ 1x internal header

PC Health Monitoring

Voltage	■ Monitors for CPU Cores, +12V, +3.3V, +5V, +5V Standby, VBAT, HT, Memory, Chipset Voltages. ■ 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	■ Total of five 4-pin fan headers supporting up to 5 fans ■ 5x fans with tachometer status monitoring ■ Status monitor for speed control ■ Status monitor for on/off control ■ Support 3-pin fans (w/o speed control) ■ Low noise fan speed control ■ Pulse Width Modulated (PWM) fan connectors
Temperature	■ Monitoring for CPU and chassis environment ■ CPU thermal trip support ■ FC temperature sensing logic ■ Thermal Monitor 2 (TM2) support ■ PECI
LED	■ CPU / System Overheat LED ■ +5V Standby alert LED
Other Features	■ Chassis intrusion detection ■ Chassis intrusion header

Drive Bays

Hot-swap	■ 4x 3.5" Hot-swap SATA3 HDDs w/ RAID
Peripheral Bay	■ Slim optical drive (optional)

Backplane

SAS2/SATA3 HDD Backplane
(SAS support requires optional SAS controller)

System Cooling

Fans	■ 4x 4cm 12,500 RPM PWM fans ■ Optional fans to cool add-on cards
Shroud	■ 1x Air Shroud

Power Supply

400W Redundant Power Supplies w/Power Distributor, PMBus 1.2, I^2C, and PFC

AC Input	■ 100-240V, 50-60Hz, 6-3A
DC Output	■ +5V standby: 3A ■ +12V: 33A
DC Output With Power Distributor	■ +5V: 25A ■ +3.3V: 25A ■ -12V: 0.6A

System BIOS

BIOS Type	■ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	■ DMI 2.3 ■ PCI 2.3 ■ ACPI 1.0 / 2.0 ■ USB Keyboard support ■ SMBIOS 2.3

Management

Software	■ IPMI (Intelligent Platform Management Interface) v2.0 with KVM support ■ SuperDoctor® III ■ Watch Dog ■ NMI
Power Configurations	■ ACPI / ACPM Power Management ■ Main Switch Override Mechanism ■ Power-on mode for AC power recovery ■ Internal/External modem ring-on

Operating Environment / Compliance

RoHS	■ RoHS2 (2011/65/EU) Compliant
Environmental Spec.	■ Operating Temperature: 10°C to 35°C (50°F to 95°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 - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SLM-F	1	Super X10SLM-F Motherboard
	CSE-813MTQ-R400CB	1	1U Chassis
Air Shroud	MCP-310-19007-0N	1	SC811/SC512L/SC512F/SC813M/SC113M/SC513L-410B/SC513L-420B/SC513F, UP X9SRE/I, X9 Mylar Air Shroud, 12"x9.6" MB
Backplane	BPN-SAS-815TQ	1	Sup 4x SAS/SATA;SATA con
Cable 1	CBL-0186L	1	SET OF 4 SATA 56/45.5/35/23CM ROUND S-RA. 26AWG
Cable 2	CBL-0157L	1	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1459-QRG	1	5018D-MTF/MTRF, QRG
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PCI-E x16 output
Heatsink / Retention	SNK-P0046P	1	1U PASSIVE CPU HS FOR INTEL LGA1156
Power Supply	PWS-406P-1R	2	1U 400W Redundant Short Depth Power Supply

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-0288L-01	-	IPASS TO 4 SATA 70/60/50/50CM, W/ 70CM SB, RA ,30AWG