SuperServer 5018R-MR

Integrated Board

Super X10SRi-F

Available Colors: Black   ■

Key Features

1. Single socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Intel® C612 chipset
3. 4x 3.5" Hot-swap SATA3 drive bays
4. Up to 512GB ECC DDR4 2133MHz LRDIMM; 8x DIMM sockets
5. 1x PCI-E 3.0 x16 slot
6. Intel® i350-AM2 Dual port GbE LAN
7. Integrated IPMI 2.0 and KVM with Dedicated LAN
8. I/O ports: 1x VGA, 2x COM, 2x USB 3.0, 4x USB 2.0
9. 400W (1+1) Redundant Short-depth 80Plus Gold-level power supplies

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

Specifications

Product SKUs

SYS-5018R-MR	■ SuperServer 5018R-MR (**Black**)

Motherboard

Super X10SRi-F

Processor

CPU	■ Intel® Xeon® processor E5-2600/1600 v3 family (up to 145W TDP **) ■ Single Socket R3 (LGA 2011)
Core / Cache	■ Up to 18 Cores / Up to 45MB Cache
Note	** Motherboard supports this maximum TDP. Please verify your system can thermally support

System Memory

Memory Capacity	■ 8x 288-pin DDR4 DIMM sockets ■ Up to 512GB DDR4 ECC LRDIMM ■ Up to 256GB DDR4 ECC RDIMM
Memory Type	■ 2133/1866/1600/1333MHz ECC DDR4 SDRAM 72-bit, 288-pin (RDIMM/LRDIMM) / 284-pin (UDIMM) gold-plated DIMMs
DIMM Sizes	■ RDIMM: 32GB, 16GB, 8GB, 4GB

Chassis

Form Factor	■ 1U Rackmount
Model	■ CSE-813MTQ-R400CB

Dimensions and Weight

Height	■ 1.7" (43mm)
Width	■ 17.2" (437mm)
Depth	■ 19.85" (503mm)
Package	■ 8" (H) x 24" (W) x 28" (D)
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

Expansion Slots

PCI-Express	■ 1x PCI-E 3.0 x16 slot

Memory Voltage	
	■ 1.2 V

Error Detection	
	■ Corrects single-bit errors
	■ Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	■ Intel® C612 Express chipset

SATA	
	■ SATA3 (6Gbps) via C612 controller
	■ RAID 0, 1, 10 support; 5 supported under Windows

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

Network Controllers	
	■ Intel® i350-AM2 Dual Port Gigabit Ethernet
	■ Virtual Machine Device Queues reduce I/O overhead
	■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
	■ 1x Realtek RTL8201N PHY (dedicated IPMI)

Video	■ ASPEED AST2400 BMC

Input / Output

SATA	■ 10x SATA3 (6Gbps) ports

LAN	
	■ 2x RJ45 Gigabit Ethernet LAN ports
	■ 1x RJ45 Dedicated IPMI LAN port

USB	
	■ 2x USB 3.0 ports (2 rear)
	■ 4x USB 2.0 ports (2 rear + 2 front)

Video	■ 1x VGA port

Serial Port / Header	
	■ 1x Fast UART 16550 serial port
	■ 1x internal header

DOM	■ 2x SuperDOM (Disk on Module) ports

PC Health Monitoring

Voltage	
	■ Monitors for CPU Cores, +3.3V, +5V, +12V, +5V Standby, VBAT, HT, Memory, Chipset Voltages.

FAN	
	■ Total of 6 fan headers supporting up to 6 fans
	■ 6 fans with tachometer status monitoring
	■ Status monitor for speed control
	■ Status monitor for on/off control
	■ Low noise fan speed control
	■ Pulse Width Modulated (PWM) fan connectors

Temperature	
	■ Monitoring for CPU and chassis environment
	■ CPU thermal trip support
	■ I^2C temperature sensing logic
	■ Thermal Monitor 2 (TM2) support
	■ PECI

LED	
	■ CPU / System Overheat LED
	■ Suspend static indicator LED
	■ UID/Remote UID

Other Features	
	■ Chassis intrusion detection
	■ Chassis intrusion header
	■ Chipkill support
	■ RoHS, Halogen Free

Drive Bays

Hot-swap	■ 4x 3.5" Hot-swap drive bays

Peripheral Drives

Optional	
	■ Optional slim optical device bay, optional FDD/USB bay
	■ 2x 2.5" Fixed drives internal

Backplane

SAS/SATA HDD Backplane
(SAS support requires optional SAS controller)

System Cooling

Fans	■ 4x 40x28mm 4-pin PWM Cooling Fans

Power Supply

400W (1+1) Redundant SuperCompact Short-depth AC-DC Gold-level power supply with PMBus and I2C

AC Input	■ 400W: 100-240 V, 50-60 Hz, 6-3 Amp

DC Output +5V standby	■ 3 Amp

DC Output +12V	■ 33 Amp

With Power Distributor	
	■ +5V: 25 Amp
	■ +3.3V: 25 Amp
	■ -12V: 0.6 Amp

System BIOS

BIOS Type	■ 8MB 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

Operating Environment / Compliance

RoHS	■ RoHS 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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10SRi-F	1	Super X10SRi-F Motherboard
	CSE-813MTQ-R400CB	1	1U Chassis
Backplane	BPN-SAS-815TQ	1	BPN-SAS-815TQ-O-P
Cable 1	CBL-0157L	1	8 pin to 8 pin ribbon SGPIO cable with tube , 40cm, PBF
Cable 2	CBL-0186L	1	SET OF 4 SATA 56/45.5/35/23CM ROUND S-RA. 26AWG
Peripheral Drive	DVM-TEAC-DVD-SBT3	0	BLACK TEAC SLIM DVD ROM SATA DRIVE ROHS,HF,RoHS/REACH,PBF
Peripheral Drive	DVM-PNSC-DVD-SBT2	0	BLACK PANASONIC SLIM DVD ROM SATA DRIVE ROHS
Riser Card	RSC-RR1U-E16	1	RSC-RR1U-E16 with PCI-E x16 output
Heatsink / Retention	SNK-P0047PS	1	1U Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-406P-1R	2	1U 400W Redundant Short Depth Power Supply