SuperServer 6018R-MDR

Integrated Board

Super X10DRD-L

Available Colors: Silver

▸ Drivers & Utilities ▸ BIOS ▸ IPMI ▸ Tested Memory ▸ Tested HDD ▸ Manuals ▸ OS Certification Matrix ▸ Quick-References Guide

Key Features

- Data Center Optimized
- Cost Effective
- Short Depth

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 **v4**†/ v3 family; QPI up to 9.6GT/s
2. Up to **1TB**† ECC 3DS LRDIMM , up to DDR4- **2400**†MHz ; 8x DIMM slots
3. 1x PCI-E 3.0 x8 (FHHL) slot
4. 2x 2.5" Fixed SATA3 Drive Bays
5. Intel® i350 Dual-Port 1GbE LAN
6. I/O ports: 1x VGA, 1x COM, 4x USB 2.0
7. 400W Redundant Power Supplies **Gold Level Certified**
8. 2x SuperDOM (Disk on Module) ports
9. IPMI 2.0 + KVM with Dedicated LAN

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

Specifications

Product SKUs

SYS-6018R-MDR	SuperServer 6018R-MDR (Silver)

Motherboard

Super X10DRD-L

Processor/Cache

CPU	▪ Intel® Xeon® processor E5-2600 v4†/ v3 family (up to 145W TDP) * ▪ Dual Socket R3 (LGA 2011)
Cores / Cache	▪ Up to 22 Cores† / Up to 55MB† Cache
System Bus	▪ QPI up to 9.6 GT/s
Note	† BIOS version 2.0 or above is required
Note	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory

Memory Capacity	▪ 8x 288-pin DDR4 DIMM slots ▪ Up to 1TB† ECC 3DS LRDIMM, 512GB ECC RDIMM
Memory Type	▪ 2400†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	▪ RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB ▪ LRDIMM: 64GB, 32GB ▪ 3DS LRDIMM: 128GB
Memory Voltage	▪ 1.2 V
Error Detection	▪ Corrects single-bit errors

On-Board Devices

Chipset	▪ Intel® C612 chipset
SATA	▪ SATA3 (6Gbps); 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
Network Controllers	▪ Intel® i350 Dual Port Gigabit Ethernet ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8211E PHY (dedicated IPMI)
Video	▪ ASPEED AST2400 BMC

Input / Output

SATA	▪ 6x SATA3 (6Gbps) ports ▪ I-SATA 4 & I-SATA 5 support SATA DOM
LAN	▪ 2x RJ45 Gigabit Ethernet LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	▪ 7x USB 2.0 ports (4 rear, 2 headers, 1 Type A)
Video	▪ 1x VGA port
Serial Port / Header	▪ 2x COM ports (1 rear, 1 header)
DOM	▪ 2x SuperDOM (Disk on Module) ports

Management

Software	▪ IPMI 2.0 ▪ Intel® Node Manager ▪ SuperDoctor® 5 ▪ SSM ▪ SPM ▪ SUM ▪ Watch Dog
Power Configurations	▪ ACPI Power Management ▪ Power-on mode for AC power recovery

Chassis

Form Factor	▪ 1U Rackmount
Model	▪ CSE-514-R400C

Dimensions and Weight

Width	▪ 17.2" (437mm)
Height	▪ 1.7" (43mm)
Depth	▪ 16.9" (429mm)
Package	▪ 27" (W) x 8" (H) x 24" (L)
Gross Weight	▪ 28 lbs (12.70 kg)
Available Colors	▪ Silver

Front Panel

Buttons	▪ Power On/Off button ▪ System Reset button
LEDs	▪ Power status LED ▪ HDD activity LED ▪ 2x Network activity LEDs ▪ Universal Information (UID) LED

Expansion Slots

PCI-Express	▪ 1x PCI-E 3.0 x8 (FHHL) slot

Drive Bays

Hot-swap	▪ 2x 2.5" Fixed SATA3 Drive Bays

System Cooling

Fans	▪ 5x 4cm fans with optimal fan speed control

Power Supply

400W Redundant Power Supplies w/Power Distributor, PMBus 1.2, I²C, 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	▪ Plug and Play (PnP) ▪ APM 1.2 ▪ PCI 2.3 ▪ ACPI 3.0 / 4.0 ▪ USB Keyboard support ▪ SMBIOS 2.7.1 ▪ UEFI 2.3.1

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

See Parts List

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