SuperStorage Server 6028R-E1CR12L

SAS3 IT controller Storage Expandable

Integrated Board

Super X10DRH-iT

▸ Drivers & Utilities ▸ BIOS ▸ IPMI ▸ Tested Memory ▸ Tested HDD ▸ Manuals ▸ OS Certification Matrix

Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 **v4**†/ v3 family; QPI up to 9.6GT/s
2. Up to **2TB**† ECC 3DS LRDIMM , up to DDR4- **2400**†MHz ; 16x DIMM slots
3. 1x PCI-E 3.0 x16, 6x PCI-E 3.0 x8 (slot 1 & 2 occupied by controller and JBOD expansion port)
4. Dual 10GBase-T LAN w/ Intel® X540
5. 12x 3.5" Hot-swap drive bays: 8x 3.5" Hot-swap SAS3/SATA3 drive bays and 4x NVMe hybrid drive bays (SAS3/SATA3/NVMe*); 2x 2.5" optional Hot-swap SATA drive bays (rear)
6. SAS3 via LSI 3008 controller; IT mode
7. Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN
8. 3x 8cm hot-swap redundant PWM cooling fans
9. 920W Redundant Power Supplies **Platinum Level (94%)**

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

Specifications

Product SKUs	
SSG-6028R-E1CR12L	SuperServer 6028R-E1CR12L (Black)

Motherboard	
Super X10DRH-iT	

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	16x 288-pin DDR4 DIMM slots Up to 2TB† 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
SAS	SAS3 (12Gbps) via LSI 3008 IT mode firmware
SATA	SATA3 (6Gbps) with RAID 0, 1, 5, 10
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® X540 Dual Port 10GbE Virtual Machine Device Queues reduce I/O overhead Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1 Realtek RTL8201N PHY (dedicated IPMI)
Graphics	ASPEED AST2400 BMC

Input / Output	
LAN	2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	2 USB 3.0 ports (rear) 2 USB 2.0 ports (rear) 1 Type A
VGA	1 VGA port
Serial Port / Header	1 Fast UART 16550 port / 1 Header

Chassis	
Form Factor	2U Rackmount
Model	CSE-826BE1C-R920LPB

Dimensions	
Width	17.2" (437mm)
Height	3.5" (89mm)
Depth	25.6" (648mm)
Weight	Gross Weight: 58 lbs (26.3 kg) Net Weight: 34 lbs (15.4 kg)
Available Colors	Black

Front Panel	
Buttons	Power On/Off button System Reset button
LEDs	Power status LED Hard drive activity LED 2 Network activity LEDs System Overheat LED Power fail LED

Expansion Slots	
PCI-Express	1 PCI-E 3.0 x16 slot 6 PCI-E 3.0 x8 slots Slot 1 & 2 occupied by controller and JBOD Expansion Port

Drive Bays	
Hot-swap	12x 3.5" Hot-swap SAS3/SATA3 drive bays
Optional	2x 2.5" Hot-swap SATA drive bays (rear)

Backplane
SAS3/SATA3 single expander per backplane

System Cooling	
Fans	3x 8cm hot-swap redundant PWM cooling fans

Power Supply with Power Distributor	
920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C	
AC Input	100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	4 Amp @ +5V standby 75 Amp @ +12V
Certification	80 PLUS PLATINUM 94 **Platinum Certified** [Test Report]

System BIOS	
BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP) APM 1.2 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI

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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRH-iT	1	Super X10DRH-iT Motherboard
	CSE-826BE1C-R920LPB	1	2U Chassis
Backplane	BPN-SAS3-826EL1-N4	1	12-Port 2U Backplane with Expander support up to 8 x 3.5" SAS3/SATA3 HDD/SDD and 4 x SAS3/SATA3/NVMe Storage Devices,HF,RoHS/REACH
Cable 1	CBL-SAST-0532	4	Internal Mini-SAS HD to Mini-SAS HD 50cm,30AWG,12Gb/s,HF,RoHS /REACH,PBF
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Parts	MCP-260-00042-0N	1	STD I/O shield for X9 socket R server MB with Gasket.
Heatsink / Retention	SNK-P0048PS	2	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-920P-SQ	1	920W 1U Redundant PWS W/ Guiet Mode
Fan	FAN-0126L4	3	80x80x38 mm 7K RPM Chassis Middle Fan w/ Housing
Drive Tray(s)	MCP-220-00075-0B	12	Black 3.5" HDD tray
Add On Card	AOC-S3008L-L8E-O-P	1	12Gbps SAS3/HBA/ 2 internal HD connectors/STD Gen3 PCI/122 HD support
Add On Module	AOM-SAS3-8I8E-LP	1	8-port Mini SAS HD Int-to-Ext cable adapter w/ LP bracket

Optional Parts List

	Part Number	Qty	Description
Rear Window	MCP-220-82609-0N	-	Rear hot-swap drive bay for 2x 2.5" drives
HDD bracket	MCP-220-82611-0N	1	Dual 2.5" fixed HDD tray
	CBL-0289L	1	HDD Power Cable
	CBL-0473L	2	HDD SATA Cable
4 NVMe Drives Support	AOC-SLG3-2E4R	2	NVMe AOC
	CBL-SAST-0590	4	Internal Mini-SAS HD cable for PCIe SSD NVMe, 12Gb/s, 70cm
	MCP-220-00116-0B	4	3.5" to 2.5" NVMe drive tray
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)

Hide Parts List

Note: * NVMe support requires additional parts in optional parts list

Copyright © 2016 Super Micro Computer, Inc.
Information in this document is subject to change without notice.
Other products and companies referred to herein are trademarks or registered trademarks of their respective companies or mark holders.

Downloaded from Arrow.com.