

SuperServer 6027R-N3RF4+



Available Colors: Black

Key Features

1. Intel® Xeon® processor E5-2600 family; QPI up to 8GT/s
2. Up to 768GB DDR3 1600MHz* ECC Registered DIMM; 24x DIMM sockets
* Depends on memory configuration
3. 2 PCI-E 3.0 (x8) Low-profile, 2 PCI-E 3.0 (x16) & 2 PCI-E 3.0 (x8) Full-height slots (see below for details)
4. Intel® i350 GbE Controller; 4x ports
5. 10x Hot-swap 3.5" SAS/SATA HDD Bays
6. 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

- SYS-6027R-N3RF4+ ■ SuperServer 6027R-N3RF4+ (Black)

Motherboard

Super X9DRW-3LN4F+

Processor/Cache

- CPU ■ Intel® Xeon® processor E5-2600 (up to 135W TDP)
 ■ Dual Socket R (LGA 2011)

- Cache ■ Up to 20MB

- System Bus ■ QPI up to 8 GT/s

System Memory

- Memory Capacity ■ 24x 240-pin DDR3 DIMM sockets
 ■ Supports up to 768 GB DDR3 ECC Registered memory (RDIMM) in 24 DIMM sockets
 ■ Supports up to 128 GB DDR3 ECC Un-Buffered memory (UDIMM) in 24 DIMM sockets

- Memory Type ■ 1600*/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated

Chassis

- Form Factor ■ 2U Rackmount

- Model ■ [CSE-829BTQ-R920WB](#)

Dimensions

- Width ■ 17.2" (437mm)

- Height ■ 3.5" (89mm)

- Depth ■ 27.75" (705mm)

- Gross Weight ■ 52 lbs (23.6kg)

- Available Colors ■ Black

Front Panel

- Buttons ■ Power On/Off button
 ■ System Reset button

- LEDs ■ Power status LED
 ■ Hard drive activity LED
 ■ 2x Network activity LEDs
 ■ System Overheat LED
 ■ Power fail LED

Expansion Slots

- 1 PCI-E 3.0 (x16) Full-height (16.5" length)

DIMM Sizes	<ul style="list-style-type: none"> 32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	<ul style="list-style-type: none"> 1.5 V, 1.35 V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C606 Chipset
SAS	<ul style="list-style-type: none"> SAS from C606 RAID 0, 1, 10 support
SATA	<ul style="list-style-type: none"> Via Cable for SATA controller SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support Nuvoton WPCM450 BMC
Network Controllers	<ul style="list-style-type: none"> Intel® i350 Gigabit Ethernet Controller Virtual Machine Device Queues reduce I/O overhead Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	<ul style="list-style-type: none"> Matrox G200eW

Input / Output

Serial ATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps)
SAS	<ul style="list-style-type: none"> 8x SAS ports (3Gbps)
LAN	<ul style="list-style-type: none"> 4x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 7x USB 2.0 ports total (2x rear + 4x via header + 1x Type A)
VGA	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 1x Fast UART 16550 port / 1 Header

- 1 PCI-E 3.0 (x16) Full-height (10" length)
 - 1 PCI-E 3.0 (x8) Full-height (16.5" length)
 - 1 PCI-E 3.0 (x8) Full-height (6.6" length)
 - 2 PCI-E 3.0 (x8) Low-profile (6.6" length)
 - [UIO AOC Compatibility Matrix](#)
- PCI-Express

(Both CPUs need to be installed for full access to PCI-E slots and onboard controllers. See manual block diagram and [AOC Support](#) for details.)

Drive Bays

- | | |
|----------|--|
| Hot-swap | <ul style="list-style-type: none"> 10 Hot-swap 3.5" SAS / SATA HDD trays (connected to onboard storage controller - 2x SATA3, 8x SAS) |
|----------|--|

Peripheral Drives

- | | |
|---------|---|
| DVD-ROM | <ul style="list-style-type: none"> Slim DVD-ROM drive (optional) |
|---------|---|

Backplane

1x SAS2 / SATA backplane

System Cooling

- | | |
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| Fans | <ul style="list-style-type: none"> 4x 8cm heavy duty PWM fans |
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Power Supply with Power Distributor

920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and I2C

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|----------|---|
| AC Input | <ul style="list-style-type: none"> 100-240 V, 50-60 Hz, 11-4.5 Amp |
|----------|---|

- | | |
|-----------|--|
| DC Output | <ul style="list-style-type: none"> 4 Amp @ +5V standby 75 Amp @ +12V |
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Certification



Platinum Certified [[Test Report](#)]

System BIOS

- | | |
|---------------|---|
| BIOS Type | <ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS |
| BIOS Features | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> RoHS Compliant |
| Environmental Spec. | <ul style="list-style-type: none"> Operating Temperature: 5°C to 35°C (41°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°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-X9DRW-3LN4F+	1	Super X9DRW-3LN4F+ Motherboard
	CSE-829BTQ-R920WB	1	2U Chassis
Backplane	BPN-SAS-829BTQ	1	10 HDD BPN, SGPIO only support; added precharged resistor for hot-swap
Cable 1	CBL-0157L-01	1	8 pin to 8 pin ribbon SGPIO cable with tube, 61.5cm, PBF
Cable 2	CBL-0226L	2	43CM SATA ROUND S-RA PBF 26AWG
Cable 3	CBL-0388L-01	2	IPASS TO 4 SATA 75/75/90/90CM W/ 75cm SB. RA. 30AWG
Riser Card	RSC-R2UW+-2E16-2E8-O-P	1	RSC-R2UW+-2E16-2E8-O-P
Riser Card	RSC-R2UW-2E8R-O-P	1	RSC-R2UW-2E8R-O-P
Heatsink / Retention	SNK-P0048PSC	2	2U Passive CPU HS for 2U WIO+ Servers
Power Supply	PWS-920P-SQ	2	920W 1U Redundant PWS W/ Quiet Mode
Rail Set	MCP-290-00053-0N	1 set	Rail set, quick/quick, default for 2,3U 17.2"W

Optional Parts List

	Part Number	Qty	Description
Storage Controller Card(s) (PCI-E Only)	-	-	Please refer to our Storage Add-on Card Table
Network Card (PCI-E Only)	-	-	Please refer to our Network Add-on Card Table
DVD-ROM / DVD-RW	DVM-PNSC-DVD-SBT1 DVM-TEAC-DVD-SBT2 DVM-PLDS-DVDRW-SBT2 DVM-TEAC-DVDRW-SBT1	1	SLIM DVD-ROM / DVD-RW SATA DRIVE
DVD-ROM Accessory	MCP-220-81502-0N	1	Slim SATA DVD kit
Internal 2.5" HDD Tray (DVD Slot)	MCP-290-00036-0B	1	Black DVD dummy tray support 1x 2.5" HDD