

High Performance Solution with Open-E DSS V7 and Supermicro SSG-6027R-E1R12T

Flexible Storage to meet the rising tide of unstructured data

The SSG-6027R-E1R12T Server running Open-E DSS V7 offers a flexible cost effective platform to build and manage storage deployments. Open-E DSS V7 is a robust, award-winning enterprise storage application which offers excellent compatibility with industry standards. Key features and benefits include:

- **Easy To Use** – The simple GUI features an integrated wizard that guides users through the installation and storage configuration process step-by-step offering a low learning curve to understand the setup and configuration.
- **Remote Storage Management** – Our secure web-based interface enables you to manage the server from anywhere in the world.
- **Flexible Unified Connectivity** – SMB, NFS, Apple Talk, NFS, iSCSI, and Fibre Channel connectivity provides interoperability in enterprise environments of all sizes and application types.
- **Virtualization** – Certified with VMware and Citrix Ready as well as Optimized for Microsoft Hyper-V with Persistent Reservations .
- **High Availability** – Configurations can be deployed using 2x Nodes providing Active-Active and Active-Passive Failover for iSCSI Volumes. Support for File and Block interfaces allowing for replication with mission critical data redundancy.

NAS and SAN (Unified Storage)

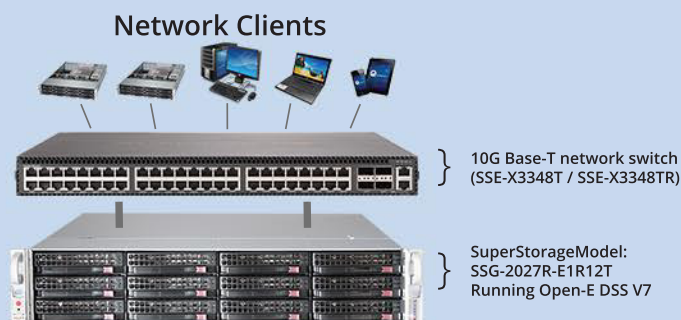
- Unified Storage allows both block and file level access to support the widest number of client applications.
- Hardware RAID offers efficient capacity utilization, fault tolerance and write back cache performance to support low latency applications.
- Two 10G base-T interfaces offers the flexibility to work with both legacy 1G and 10G networks cabled with user friendly RJ45 copper cabling.

Reliable Storage

- Capable of high capacity and high throughput for demanding backup applications and general purpose file serving.

Typical Deployment Model

Single node configurations can provide storage to network production servers as well as direct support of clients with high capacity requirements.



Supermicro 6027R-E1R12T AT-A-GLANCE

- 2U Rack mount server with 12x 3.5" hot-swap drive bays
- Optional 2x rear 2.5" hot-swap bays for OS
- 6Gbps LSI 2208 SAS2 RAID controller
- 2x 10G Base-T Ethernet ports (RJ45)
- Dedicated IPMI Out-of-Band Management port

Open-E DSS V7 AT-A-GLANCE

- Robust, award-winning storage application
- Excellent compatibility with industry standards
- Easy to deploy and manage
- The most stable
- Price performance leader





Base System Specification

The full system specification, manuals and support materials can be found at:
<http://www.supermicro.com/products/system/2U/6027/SSG-6027R-E1R12T.cfm>

Product SKUs	
SSG-6027R-E1R12T	SuperServer 6027R-E1R12T (Black)
Motherboard	
Super X9DRH-7TF	
Processor/Cache	
Recommended CPU	Intel® Xeon® E5-2697 v2 2.70GHz
System Supports	Dual Socket R (LGA 2011) (up to 130W TDP)
Cache	Up to 30MB
System Bus	QPI up to 8 GT/s
System Memory	
Recommended Memory	64GB using 8x 8GB DDR3 ECC-REG
System Supports	16x 240-pin DDR3 DIMM sockets Up to 1TB DDR3 ECC LRDIMM Up to 512GB DDR3 ECC Registered memory (RDIMM) Up to 128GB DDR3 ECC Un-Buffered memory (UDIMM)
Memory Type	1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs Support ECC and non-ECC UDIMMs
DIMM Sizes	32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	1.5 V, 1.35 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	Intel® C602 Chipset
AHCI SATA	SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1
SCU SATA	SATA 2.0 3Gbps with RAID 0, 1, 10
SAS	SAS2 from LSI 2208 HW RAID 0, 1, 5, 6, 10, 50, 60 support
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Network Controllers	Nuvoton WPCM450 BMC Intel® X540 Dual Port 10GBase-T Virtual Machine Device Queues reduce I/O overhead Supports 10GBase-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	Matrox G200eW
Input / Output	
AHCI SATA	2x SATA 3.0 ports (6Gbps) 4x SATA 2.0 ports (3Gbps)
SCU SATA	4x SATA 2.0 ports (3Gbps)
SAS	8x SAS2 ports (6Gbps)
LAN	2x RJ45 10GBase-T ports 1x RJ45 Dedicated IPMI LAN port
USB	7x USB 2.0 ports total (4 rear + 2 via header + 1 Type A)
VGA	1x VGA port
Serial Port / Header	1x Fast UART 16550 port / 1 Header

Chassis	
Form Factor	2U Rackmount
H x W x D	3.5" (89mm) x 17.2" (437mm) x 25.5" (648mm)
Gross Weight	61 lbs (27.7 kg)
Expansion Slots	
PCI-Express	1x PCI-E 3.0 x16 6x PCI-E 3.0 x8
Drive Bays	
Hot-swap	12x Hot-swap 3.5" SAS / SATA HDD trays
Optional OS Drive	2x Rear Hot-swap 2.5" Drive Bays
Backplane	
SAS2 / SATA3 backplane	LSI Expander
System Cooling	
Fans	3x 8cm 9.5K RPM, 4-pin PWM fans
Power Supply with Power Distributor	
920W high-efficiency (94%+) AC-DC Redundant power supplies with PMBus and 12C	
AC Input	100-240 V, 50-60 Hz, 11-4.5 Amp
DC Output	4 Amp @ +5V standby 75 Amp @ +12V
Certification	Platinum Level Certified 94%+ Platinum Certified
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)

Out-of-Band Server Management

Our solutions are designed for easy automation with existing management infrastructure. In data centers, Supermicro Server Management Utilities provides you all the necessary functions.

- Remotely managing the health of hardware and operating system services
- Managing power consumption of nodes in cluster
- Managing BIOS provisioning through BMC/IPMI
- Execute commands on multiple target systems in parallel

For more Information about Supermicro Server Management: http://www.supermicro.com/products/nfo/SMS_SUM.cfm