

# SDD: designed for enterprise business



## About SDD shared storage

The MOG network shared storage equipped with SDD drives provides versatility and high-capacity storage. It is ultra-compact and lightweight and it features an enterprise RAID controller with high performance, offering up to 12Gbit/s transfer rates, as well as support for SSD drives and 10Gbit/s network interfaces with teaming support.

## Main benefits

- Up to 60 TB Capacity;
- High performance RAM memory;
- Redundant drives for operating system;
- Raid controller with high performance;
- SDD Drives - Enterprise Class Disk;
- RAID enabling;
- High performance data transfer rates;
- High-availability data access;
- Storage for complex and critical applications.

## Main applications

- Ideal for complex and critical applications like broadcasters, production houses, industry, government and other sectors that require high-availability.

Storage Models	st15ssd15tb	st16ssd30tb	st16ssd60tb
Model	15TB (8x 1920GB drives)	30TB (16x 1920GB drives)	60TB (16x 3840GB drives)
SSD models Capacities (RAW)	15TB (8x 1920GB drives)	30TB (16x 1920GB drives)	60TB (16x 3840GB drives)
SSD Drive Class		Datacenter Class	
Total SSD Endurance (TBW) **	15TB – 22400 TB	30TB – 44800 TB	60TB – 89600 TB
Maximum Throughput	Up to 19 Gbit/s		
	** The total SSD endurance TBW is calculated by this formula: Total TBW = disk TBW * n# of drives in the system The total SSD endurance TBW does not include the parity penalty if any RAID is configured. The individual drive TBW for each model is: 960GB - 6160TBW 1920GB - 2800TBW 3840GB - 5600TBW		
<b>Storage Management</b>			
Dedicated RAID Controller	Yes. Datacenter class HostRAID adapter with 8 (for 8 drive unit models) or 16 (for 16 drive unit models) at 12 Gbit/s ports for performance-hungry needs		
Write Cache Memory	Yes. 1024 MB with battery backed cache		
Write Cache Protection	Yes. Embedded flash backup with supercap (battery) included		
Expandable option	Only the option to stack multiple system units is available		
RAID Mode	Is available the options RAID 0, 1, 5, 6, 10, 50 and 60. The default configuration is RAID 5 in all different models.		
Hot-Plug	Yes		
Hot-Spare option	Yes		
<b>System</b>			
CPU	Intel® Xeon® @ 2.2GHz with 4 Cores / 8Threads		
Memory	8GB DDR4-2400 RDIMM Registered ECC		
Operating System Drive	From 64GB SSD redundant drive		
Integrated Graphics	Yes		
Integrated RAID Control	Yes. ONLY for Operating system Drives for redundancy in RAID 1 configuration		
Operating System			
Distribution	Windows Storage Server 2012R2.x64		
Option to Add/Edit/Remove Shares	Yes		
Option to Add/Edit/Remove Users	Yes		
External I/O			
Status indicators	Front Panel LEDs	Rear Panel LEDs	
	- Power status - Power Redundant Power Supply status - Individual Drive activity	- Network ports status and activity - Operating System Drives activity	
Video	1x VGA port		
USB	2x rear USB 3.0		
Ethernet	2x RJ45 10GBase-T ports with NIC Teaming* Support 2x RJ45 1GBase-T ports with NIC Teaming* Support		
	* NIC Teaming supported is LACP and switch independent for redundancy purposes		
<b>Mechanical</b>			
Chassis Form Factor	2U Rack		
Chassis Depth	24 cm – 9.45 inches		
Rack Rails Included	Rail Less		
Front Drives Supported	8 or 16 drives for Data Storage		
Rear Drives Supported	2 unit drives for operation system		
Front Drive Form Factor	Hot-swap 2.5" drives with 7mm (for 16 drive unit models) or 15mm (for 8 drive unit models) height.		
Front Drive Key Lock	Only on the 8 drive unit models		
Rear Drive Key Lock	Yes		
<b>Electrical Characteristics</b>			
Wattage:	Dual Power Supply 300W		
Power Input:	100-240V AC and 47-63HZ		
Usage Environment			
Temperature Storage	-40°C to 65°C (-40°F to 149°F)		
Temperature continuous operation (for altitude less than 950 m or 3117 ft)	The recommended room temperature is 20 to 22°C (71.6°F) The temperature limits are 10°C to 32°C (50°F to 89.6°F) with no direct sunlight on the equipment. **MOG does not recommend the continuous usage in the temperature limits, this causes hardware degrade and reduction of the hardware life.		
Relative humidity storage	5% to 95% RH with 33°C (91°F) maximum dew point. Atmosphere must be non-condensing at all times.		
Relative humidity continuous operation (for altitude less than 950 m or 3117 ft)	10% to 80% Relative Humidity with 29°C (84.2°F) maximum dew point.		