



1U 8-bay Green Flash Server or Appliance

This 1U server/appliance can provide high performance and low operating costs to workgroups, as well as small and medium sized businesses. It is also ideal if you are running a web server with high content delivery.



The SuperMicro 113 series case is a 1U chassis with 8 hot-swappable SAS/SATA bays and redundant power supplies. While requiring significant power for each quad core Xeon CPU, even 8 SATA Flash SSDs add only 16 watts to power consumption, producing a high performance system with around 270 watts of peak power consumption.

When this server is MFT-enabled, it really flies. When fully populated with drives, IOPS jump from a maximum of 600 with a 7200 rpm drive set, or 2,000 with a 15000 rpm SAS drive set, to over 40,000 with MFT-1000 drives.

More importantly, with a single thread performance rate of up to 8,000 IOPS (versus 250 for SAS drives), this server not only prepares reports dramatically faster, but also accelerates screen displays and application response, saving labor and improving customer satisfaction.

This server delivers dramatic performance gains without increasing cost, because MFT-

1000 drives actually cost less per usable gigabyte than high performance hard disks do. With support for up to a terabyte of gross storage space, this server can respond to almost any processing need.

Chassis Model	SuperMicro SC-113TQ-R650UB		
Chassis Size	1U rackmount – 23.5" deep		
Power Supply	650 watt redundant		
Motherboard	Supermicro X7DWU		
CPU	Single Xeon quad core E5430 2.66ghz expandable to two		
RAM	4 to 64 GB – FB-DDR2-667		
LAN	Dual GigE		
Available Slots	1 or 2		
Flash SSD Capacity	Up to 1TB		
Populated with 8 MFT-1000 Flash SSDs			
Flash SSD size	32GB	64GB	128GB ¹
4K IOPS (single thread)	8,000		
4K IOPS read	50,000		
4K IOPS write	40,000		
Gross capacity	256 GB	512 GB	1 TB
Usable space with RAID-5	201 GB	402 GB	804 GB
Base Price	\$10,811	\$13,211	\$17,211

¹128 GB MFT-1000 drives are available 9/08. Exact pricing TBD.

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