



Small Footprint Green Flash Server

Imagine 25,000 IOs per second from a server drawing only 45 watts at idle, or 85 watts at full tilt? That's what this baby can deliver.



The SuperMicro 510 series case is a 1U chassis that is only 11 inches deep, is extremely light weight, and uses a high efficiency 200 watt power supply.

To maximize performance, EasyCo uses a small Gigabyte socket AM-2 motherboard with a 45W low power AMD dual-core processor and Flash SSDs that draw about 1.5 watts each. Together, these create an IO powerhouse that is ideal for everything from departmental application servers to dense data center deployment.

When Managed Flash Technology (MFT) is added to the Flash SSDs, the performance improves as much as 60-fold versus their native topology. As a result, they run up to 20 times faster than 15K rpm SAS drives, and up to 60 times faster than 2.5" 7200 rpm SATA drives, resulting in an environment where CPU and drives balance each other out. This hot little server can keep up with an 80 drive array of 15K SAS drives for small random IO.

These servers are available custom configured from EasyCo, or can use MFT-500 or MFT-1000 drive kits with your own components.

Chassis Model	SuperMicro SC-510-200B
Chassis Size	1U rackmount – 11" deep
Power Supply	200 W 80+ high efficiency
Motherboard	Gigabyte uATX socket AM-2
CPU	AMD Athlon X2 4850e dual core 2.5GHz
RAM	2 to 8 GB – DDR2-800
LAN	Single GigE
Available Slots	0
Flash SSD Capacity	Up to 512 GB
Power Draw Idle / Busy	45 / 85 W

Populated with 4 MFT-500 Flash SSDs

Flash SSD size	32GB	64GB	128GB ¹
4K IOPS (single thread)	2,000		
4K IOPS read	7,000		
4K IOPS write	30,000		
Gross capacity	128 GB	256 GB	512 GB
Usable space with RAID-5	86 GB	172 GB	344 GB
Base Price	\$3,150	\$3,990	\$5,630

Populated with 4 MFT-1000 Flash SSDs

Flash SSD size	32GB	64GB	128GB ¹
4K IOPS (single thread)	8,000		
4K IOPS read	25,000		
4K IOPS write	20,000		
Gross capacity	128 GB	256 GB	512 GB
Usable space with RAID-5	86 GB	172 GB	344 GB
Base Price	\$3,590	\$4,790	\$6,790

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

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