FUSION™ D500P

5-Bay Serial ATA Drive Enclosure with Port Multiplier

Part No.
FUS-D5P-25TB (Fusion D500P-2.5TB)
FUS-D5P-37TB (Fusion D500P-3.7TB)
FUS-D5P-50TB (Fusion D500P-5.0TB)

Key Features

▶ eSATA[1] interface through an integrated port multiplier

▶ 2.5TB, 3.75TB, or 5TB configurations; Enterprise/RAID Edition drives[2]

▶ Up to 240 MB/sec transfer rate

▶ Universal 180W, 110–240V, 50–60Hz power supply

▶ Drive Activity, Drive Presence, and Power LED indicators

▶ Universal secure, locking drive modules that work across the entire Fusion line

▶ Ultra-quiet, swappable fan module in 2.5TB and 3.75TB units, 80% quieter than a standard case fan

▶ eSATA cable included

▶ RoHS compliant

▶ Compatible with Sonnet Tempo™ SATA II PCI-X, PCIe, and ExpressCard/34 Host Bus Adapters

Compatibility

▶ Platform independent—Works with Mac®, Windows® or Linux® computers with compatible host bus adapter installed

HD SATAsfaction!

Today's digital content creation and editing require more speed and space than anybody would have imagined just a few, short years ago—now, storage needs are spoken of in terabytes instead of gigabytes. FireWire® drives used to be the storage solution of choice for users on a limited budget, but they don't offer enough performance for all but the most basic needs, and high-end SCSI storage systems are out of reach for most people. You probably need something in between—Sonnet's Fusion D500P SATA storage systems offer speed, versatility, and reliability in a compact package—they are a great solution for anyone looking for an affordable storage system that will fit into a variety of workflows.

Maximum Performance

Connected to a Sonnet Tempo SATA E4P PCIe or X4P PCI-X adapter installed in a Mac or Windows computer, a Fusion D500P system's drives can be accessed through its port multiplier at full speed, whether configured as RAID 0, 1, 10, or JBOD. A single Fusion D500P configured as a RAID 0 striped set achieves 240MB/sec, fast enough to support multiple streams of DV, HDV, DVCPRO, or uncompressed 8-bit 1080 HD video. Up to four Fusion D500Ps can be ganged on a single Tempo SATA E4P or X4P adapter for double, triple, or even quadruple the available streams (as well as increasing the number of supported video formats).

Safe and Secure

Fusion storage systems employ Enterprise/RAID Edition hard drives, which are subjected to hours of additional testing to check for soft errors, vibration, and other reliability predictors—just the sturdiest drives pass these tests. Only then are they prepared with special RAID-optimized firmware and become the building blocks of a super-reliable Fusion storage system. For added convenience, the swappable drive modules are compatible across the entire Fusion line.

One Cable, Five Drives

The Fusion D500P enclosure employs a high performance SATA II port multiplier to manage the enclosed drives—just a single locking cable connects the enclosure to a SATA host controller card. This efficient interface simplifies setup and cuts cable clutter without compromising performance.

SONNET
SIMPLY FAST™

Form Meets Function

Fusion D500P systems can be used for simple backup needs, but they are well-suited for use in editing suites such as Apple Final Cut Pro® and Adobe® Premiere® Pro CS3 video editing software, and video capture cards from AJA, Blackmagic Design, Matrox and Bluefish444. With an attractive and user friendly design, Fusion D500P's handsome door hides the drive modules, yet status indicator LEDs for each drive shine through. The drive modules have built-in locking levers that double as handles to make swapping easy. Or if you choose, you can secure each module in place with the built-in locks (great for added security). To keep things cool, the Fusion D500P uses a swappable fan module. The fan in 2.5TB and 3.75TB configurations is 80% quieter than a standard case fan, making this system perfectly suited for use in noise-sensitive environments. The 5TB configuration includes a high-speed fan.

FUSION D500P BENCHMARK

CONFIGURATION
Fusion D500P connected to Sonnet Tempo SATA E4P host adapter installed in Quad 266 GHz Mac Pro with 3GB of RAM and an AJA Kona3 capture card. Drives were configured as RAID 0.

VIDEO STREAMS	RAID 0
DV (1 stream=3.6 MB/s)	16
DV50 (1 stream=7.2 MB/s)	10
DVCPRO HD 720p 59.94 (1 stream=14.4 MB/s)	7
DVCPRO HD 1080i 29.97 (1 stream=16 MB/s)	6
HDV 720p (1 stream=2.4 MB/s)	15
HDV 1080i 29.97 (1 stream=3.1 MB/s)	9
ProRes 422 NTSC SD (1 stream=5.25 MB/s)	10
ProRes 422 HQ NTSC SD (1 stream=7.87 MB/s)	7
ProRes 422 720p 59.94 (1 stream=18.375 MB/s)	4
ProRes 422 HQ 720p 59.94 (1 stream=27.5 MB/s)	3
ProRes 422 1080i 29.97 (1 stream=18.375 MB/s)	4
ProRes 422 HQ 1080i 29.97 (1 stream=27.5 MB/s)	3
Uncompressed 8-bit NTSC (1 stream=21.0 MB/s)	5
Uncompressed 10-bit NTSC (1 stream=28.0 MB/s)	4
Uncompressed 8-bit 720 HD (1 stream=55.2 MB/s)	1
Uncompressed 10-bit 720 HD (1 stream=73.6 MB/s)	1*
Uncompressed 8-bit 1080i HD (1 stream=124.3 MB/s)	1*
Uncompressed 10-bit 1080 HD (1 stream=165.7 MB/s)	1*

To see a side-by-side performance comparison chart of all the Fusion family members, visit www.sonnettech.com/product/fusionfamily.

Rather than waste your time with meaningless disk tests performed on near-empty drives, we've conducted in-depth, real world testing to provide you with realistic results. Testing was conducted after weeks of use, during which time projects were captured, parts deleted, more parts captured, rendered, and so on, leaving the drives 85% full and fragmented. The stream counts we present here reflect the reduced performance that results from regular day in, day out use. Remember, virtually any storage system works well the day you get it, but the true test is whether it will continue to perform when you push the envelope and deadlines—Fusion storage systems won't let you down.

TECHNICAL SPECIFICATIONS

Warranty	2-year limited warranty
External Connectors	One eSATA
Drives Supported	1.5 & 3 Gb per second Serial ATA; up to 7,000 RPM
Data Transfer Speed	Up to 240 MB/s, depending on interface used and configuration
Supported Video Formats	8-bit uncompressed HD 1080i, 8-bit uncompressed SD: DVCPro HD, DVCPro 25/50, HDV, DV, DVCAM
Power Supply	110-240V Universal
Operating Temperature	+32º F to +104º F (+5º C to +55º C)
Dimensions	5.9 x 11.2 x 8.6 in (14.9 x 28.5 x 21.9 cm)
Weight	19.25 lbs (4.65 kg)
Package Contents	Disk enclosure, five 3.5" drive modules, power cord, one eSATA data cable, User's Guide

Accessories

▶ Fusion 500GB RAID Drive Module – Spare drive module for Fusion family storage systems. (Part No. FUS-RM-0500GB)

▶ Fusion 750GB RAID Drive Module – Spare drive module for Fusion family storage systems. (Part No. FUS-RM-0750GB)

▶ Fusion 1TB RAID Drive Module – Spare drive module for Fusion family storage systems. (Part No. FUS-RM-1000GB)

▶ Fusion Quiet Fan Module – Fan module for 500GB or 750GB drive desktop systems. (Part No. FUS-XFAN)

▶ Fusion High-Speed Fan Module – Fan module for all desktop systems. (Part No. FUS-XFAN-HS)

Technical Notes:

(1) When connected to a computer via its eSATA interface, Fusion D500P storage system requires a SATA host controller that supports port multipliers, such as Sonnet's Tempo SATA E4P for computers with PCI Express slots, Tempo SATA X4P for computers with PCI-X slots, or Tempo SATA Express 34 for portable computers with an ExpressCard slot.

(2) Although most hard drive manufacturers define 1 gigabyte as 1,000,000,000 byte, the computer operating systems usually calculate a gigabyte by dividing the bytes (whether it is disk capacity, file size, or system RAM) by 1,073,741,824 (2^{30}). This distinction may be a cause of confusion, as a hard disk with a manufacturer rating of 500GB may have its capacity reported by the operating system as 454.7GB.