

DATA SHEET

EnhanceBOX™ E400 MS

Next Generation Mini SAS Desktop Storage



Product Overview

When desktop space is limited, the compact EnhanceBOX E400 MS has the smallest footprint, yet is stylish to meet the needs of most savvy Windows and Mac digital content producers, Effect Specialists, and Graphic Artists. Designed to be simple and affordable, the E400 MS provides the best data integrity with its cable-less design, while driving terabytes of data at high speed. All components of E400 MS system are field replaceable and easy maintenance for anyone without being technically trained.

Mini-SAS Technology

The EnhanceBOX E400 MS is built on the latest I/O technology, the Mini-SAS (MS) connectivity, for multiple-disk configurations and superior performance. The EnhanceBOX E400 MS comes with highly reliable, high speed mini-SAS SFF8088 connector that combines four (4) low-cost SATA or high reliable SAS disks for professional-quality video or applications such as backup and data management for SOHO and SMB users.

RAID 0	Sequential Read	540.3MB/s
	Sequential Write	551.5MB/s
RAID 5	Sequential Read	405MB/s
	Sequential Write	407.6MB/s

Testing conducted using AJA System Test
Video Frame Size: 2048 x 1556 10-bit RGB (2K)
File Size: 16.0GB



Key Features

- ✓ Sleek ingenious aluminum finish to add style on your desktop
- ✓ PCIe x8 SAS RAID controller delivers over 400 MB/s superior performance
- ✓ Up to 8TB storage of capacity with next generation mini SAS dual interfaces
- ✓ Cable-less backplane design ensures signal strength & reduces hardware failure
- ✓ Hot-swap HDD trays with individual key lock and removable cooling fans
- ✓ Modular components design for easy field replacement and serviceability
- ✓ 80 PLUS Energy-Efficient 200W power supply reduces utility cost

Cable-less Backplane

The EnhanceBOX E400 Series keeps your workloads and critical applications running with minimum hardware failure through the user friendly physical enclosure management, specifically its cable-less backplane, designed for preventing signal degradation and latency while decreasing chances of hardware failure. By eliminating the cables inside the system, it makes the EnhanceBOX E400 Series is the most reliable desktop storage solution available.

Modular Components Design

Thanks to the removable modular designed bridge-board and hot-swappable cooling fan on the EnhanceBOX E400 Series. These ingenious features make storage system maintenance much easier than ever. Now users are able to make parts replacement easily on the field and clean the system cooling fan without turning off the system.



Eco-Friendly System

The EnhanceRAID E400 Series is powered by 80 PLUS Energy-Efficient 200W power supply that helps users cut down utility cost and reduce system maintenance cost due to the decreased on power consumption. With the special designed noise-reduced system cooling fan, the EnhanceBOX E400 Series is the eco-friendly desktop storage that easily integrates into any work environments.

Peace of Mind Service Plan

Customers can count on Enhance Technology's customer support and world-wide based service centers for any type of assistance with his/her Enhance storage products. The EnhanceBOX E400 MS includes a standard 3-year warranty with a 30-day money back guarantee, and 30-day unit exchange. If you buy EnhanceBOX E400 MS with hard disks populated solution, a one year ARP (Advance Replacement Package) is included for FREE.



Specification

Model	EnhanceBOX E400 MS
SKUs	E400 MS-F4T (4TB) E400 MS-F8T (8TB) E400 MS-F4TR (4TB w/PCIe x8 SAS RAID Controller) E400 MS-F8TR (8TB w/PCIe x8 SAS RAID Controller)
Hard Disks	Number: 4 Interface: SATA II RPM: 7200 RMP Cache: Up to 64MB per drive
Host Interface	1-port Mini SAS SFF8088
Form Factor	4-disk compact desktop tower
RAID	HBA RAID Controller 2-port, PCIe x8 SAS w/ Intel IOP348 1200MHZ 512MB DDR-II Memory RAID 0, 1, 3, 5, 6, 10 or JBOD Web GUI RAID management via local host or Ethernet
Hot-swappability	4 Hot-swappable drive trays; 1 Hot-swappable cooling fans;
Management	Hardware failure sensor and notification alarm; Web GUI RAID management via local host or Ethernet
Supported OS	Windows Server 2000 / 2003 / 2008; Windows XP / Vista / 7; Mac OSX; Linux
Physical & Environment	Operating Temperature 10°C ~ 35°C; Non-Operating Temperature -10°C ~ 50°C; Relative Humidity 5% to 95% non-condensing
Power & Cooling	200W 80 PLUS power supply; AC Input: 90-264V 47/63 Hz; Hot-swappable 8cm high-speed SMART fans;
Dimension (H x W x D)	7" x 5.25" x 9.25"
Weight (w/o disks)	12 Lbs
Safety Regulations	CE, FCC, RoHS
Warranty	EnhanceCARE SSP - 3-Year Standard Warranty - 1-Year ARP (Advance Replacement Program) - 1-Year RMA Loaner Unit - Extended After-hour Support

Package Included:

- One (1) pcs 4-disk desktop mini-SAS Enclosure
- Four (4) pcs Hot-Swap Removable HDD Trays (Installed)
- Four (4) pcs SATA II 7200 RPM HDDs (Installed)
- One (1) pcs Hot-swappable cooling fan (Installed)
- One (1) 200 Watt 80 PLUS Power Supply (Installed)
- One (1) 8x PCIe SAS RAID Controller *
- One (1) Mini SAS SFF8088-to-SFF8088 Cable
- Double-Box Protection
- Heavy Duty Foam Protection
- User Manual CD
- Screws for Mounting Hard Drives
- One Standard Power Cord
- Package Weight: 20 Lbs w/HDD
- Package Dimension (H x W x D): 12" x 10.25" x 14"

* Only included with E400 MS-F4TR and E400 MS-F8TR models

Accessories:

Spare Drive Packs:

- 1TB Spare Drive Pack w/ Tray (E400-800-HDP1T)
- 2TB Spare Drive Pack w/ Tray (E400-800-HDP2T)

Spare Fan:

- Hot-swappable Cooling Fan (E400-800-FAN)

Cables:

- 1 Meter SFF8088-to-SFF8088 Mini SAS External Cable (CB-MS/MS-1)
- 2 Meter SFF8088-to-SFF8088 Mini SAS External Cable (CB-MS/MS-2)

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