ZENSTOR

Smart Storage System



Zenstor advanced storage array is a petabyte-scale, rack- mounted block storage enclosure with self-healing technology, advanced data protection, and software value delivering super efficient mass-capacity storage for conventional data centres and cloud infrastructure.

Product Highlights

- Save space with up to 24 SFF drives in a 2U rackmount enclosure
- Experience expansion for your high-performance deployments
- Safeguard data with intelligent fault diagnosis, resolution capabilities, persistent error logging and monitoring
- Use the latest Drive Technologies.
- Ensure data is available with N+1 PCMs, I/O modules and dual data paths to all drives
- Have maximum of 28.8 GB/s in a dual controller configuration

Key Advantages

Transfer Data Fast With a 12 Gb/s SAS Interface : Get data to applications when and where it's needed with up to 12 Gb/s speed, right-sized capacity and effective maximum throughput of 14.4 GB/s in a single I/O module or 28.8 GB/s in a dual controller configuration. Even with expansion capability of up to 144 hard drives or solid-state drives, there's no sacrifice of space for performance.

Deliver Versatile Architecture Built to Grow : This flexible enclosure includes support and capabilities to manage cables, universal ports, self-configuration controls and standardised zoning. As a key building block of our modular systems — which make all critical components interchangeable regardless of size or budget — this enclosure's modularity makes it easy to set up, maintain and expand via interchangeable FRUs and hot-swappable components.

Ensure Applications Have Access to Critical Data : Safeguard your data with fault diagnosis, resolution capabilities, persistent error logging and monitoring while ensuring maximum availability and harnessing high-availability features, such as dual PCMs and I/O modules and dual data paths to all drives.

Reduce Cost and Resources With Energy-Efficient Features : This enclosure is suited for high-capacity, transaction-dependent environments that demand tighter service level agreement (SLA) requirements and faster response times for optimal data availability. It meets stringent worldwide requirements for recycling and environmental friendliness, and can help you minimise environmental impact and recognise cost savings through high performance and efficiency.

Reduce power consumption : 80 PLUS Gold and 80 PLUS Platinum power supply options with certified adaptive cooling technology.

Build In Security at the Foundation of the Data Life Cycle : Protect your most valuable business assets with guaranteed compatible Secure™ hard drives.

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Specifications

Controller	Dual I/O modules per enclosure
Host/Expansion Interface	Three universal ×4 12 Gb/s mini-SAS HD connectors (SFF-8644) per I/O module
Management/Status Reporting	CLI via RS232 and 100Base-T port SES via SAS SFF-8644 ports
Maximum System Configuration	10 Total Enclosures including Master
Device Support	Dual-port 12 Gb/s and 6 Gb/s SAS drives
Max Drives per Enclosure	24 (for a full list of supported drives, please contact your account or sales manager)
Hot-Swappable Components	Drives, power cooling modules (PCM), and SBB I/O modules
Physical	Height: 88.9 mm/3.5 in (2 EIA units) | Width: 483 mm/19 in (IEC rack compliant) | Depth: 630 mm/24.8 in | Weight: 24 kg/53 lb (with drives)
Power Requirements — AC Input	
Input Power Requirements	90VAC-264VAC, 50 Hz/60 Hz
Max Power Output per PSU	580W
Environmental/Temperature Ranges	
Operating/Nonoperating Altitude	0 m to 3,000 m (0 ft to 10,000 ft)/–300 m to 12,192 m (–1,000 ft to 40,000 ft)
Operating/Nonoperating Temperature	ASHRAE A3, 5°C to 40°C (41°F to 104°F), derate 1°C/175m above 900m, 20°C/hr max rate of change / –40°C to 70°C (–40°F to 158°F)
Operating/Nonoperating Humidity	–12°C DP and 10% RH to 21°C DP and 80% RH, max DP 21°C / 5% to 100% non-condensing
Operating/Nonoperating Shock	5 Gs, 10ms, half sine pulses/15 Gs, 10ms, half sine pulses
Operating/Nonoperating Vibration	0.21 Gs rms (5-500Hz) /1.04 Gs rms (2-200Hz)
Power Supply Units	
Power Supply	Ecodesign (Part SP-PCM01-HE580-AC/Model FS580FS104G-XX) – Gold Power Efficiency 115VAC/60 Hz|230VAC/50 Hz — Power Factor Condition 10% Load = >80% | >80% — 10% Loading = N/A 20% Load = >87%|>88% — 20% Loading = >0.90 50% Load = >90%|>92% — 50% Loading = >0.90 100% Load = >87%|>88% — 100% Loading = >0.95
Power Supply	Ecodesign (Part SP-PCM4-PT580-AC/Model SGT-S-0580ADU00) – Platinum Power Efficiency 115VAC/60 Hz|230VAC/50 Hz — Power Factor Condition(PFC) 10% Load = >80% | >80% — 10% Loading = N/A 20% Load = >90% | >90% — 20% Loading = >0.90 50% Load = >92% | >94% — 50% Loading = >0.95 100% Load = >89% | >91% — 100% Loading = >0.95

Let **AXL** help guide you to the New Style of IT. **AXL** Services delivers confidence, reduces risk, and helps you realize greater agility and stability.

- Our Consulting services provide advice and guidance to safely move your workloads to newer technologies.
- AXL implementation and installation services enable faster, more reliable startup of your new **AXL** Storage Systems, and our support portfolio allows you to get connected and get back to business fast.
- Our support technology lets you tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

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