

# **EonStor DS 1000 series**

Affordable storage with onboard iSCSI and FC/SAS enhances performance and scalability

#### Available models

### EonStor DS 1036RTB EonStor DS 1024RB/RTB

- Small form factor: space-saving design and high density capacity
- Ideal for making the most of SSD performance
- For 2.5" drives

#### EonStor DS 1012/1016/1024

- Large form factor for budget-savvy
  SMB deployment
- Best cost to performance value

# Powerful performance made affordable

- Up to 550K IOPS ensures ample compute bandwidth for diverse applications and tasks, as well as large networks/user groups
- Throughput reaches 5,500MB/s read and 1,900MB/s write accelerating major storage jobs and easily handling even intense workloads to enhance efficiency

#### **SSD Cache**

- Accelerated read performance for hot data
- Up to four SSDs per controller
- Large SSD cache pool capacity: up to 3.2TB

# Hybrid host interconnect by default

- All systems feature four 1Gb/s iSCSI ports to ensure more than sufficient connectivity to clients, servers, and other storage arrays
- Choose module host interface from 8Gb/s or 16Gb/s Fibre Channel, 10Gb/s iSCSI, or 6Gb/s or 12Gb/s

EonStor DS 1000 series storage systems deliver among the best cost to performance ratios for SMB users of all entry-level RAID solutions. Models available in diverse form factors: 12-bay, 16-bay, and compact 24-bay and 36 bay. All include 1Gb/s iSCSI ports per controller to expand networking and connectivity – an architecture created with surveillance applications in mind, which need fast interconnect to multiple clients. Up to 316 drives in LFF and 360 in SFF may be attached via JBOD enclosures to each system. With 6TB drive support, that means up to 1.9PB in capacity made available.

### Performance design for your suitable budget for SMB

EonStor DS 1000 system, entry-level enterprise-class storage system designed with unprecedented in-segment performance. Available for single, dual controller and Turbo performance models to meet different budget for SMB.

Performance	EonStor DS 1000R/RB	EonStor DS 1000RT/RTB
IOPS	380K	550K
Read (MB/s)	5,500	
Write (MB/s)	1,900	

<sup>\*</sup> The performance applies to different form factors.

#### High scalability

EonStor DS 1000 systems support as many as 360 drives through compatible expansion enclosures. Scalability is a much more cost-effective solution than buying additional storage systems, resulting in additional savings.











### EonStor DS 1000 series

- SAS to go alongside the default 1Gb/s iSCSI ports
- Converged host board with 3 connectivity options to choose from (16Gb/s FC, 8Gb/s FC, and 10Gb/s iSCSI SFP+)

#### Multiple cache protection solutions

- Maintenance free super capacitors and a flash module provide a safe and reliable power source for cached memory if main power supply is disrupted
- Hot-swappable BBU (backup battery unit) with flash module stores data should the system suddenly shutdown or experience a power outage
- Choose BBU or super capacitors based on your needs and budget

# Affordable from the start and growing with you

- Compatible with a wide range of Infortrend JBOD expansion enclosures, including high density 4U 60-bay units
- Up to 316 drives in LFF and 360 in SFF per system, with support for 6TB drives – a total of up to 1.9PB in capacity brings you lots of space for future storage growth

#### Enterprise-class data services

- Includes licenses for snapshot, volume copy/mirror, and thin provisioning
- Supports features such as automated storage tiering to leverage SSD speed and enhanced remote replication disaster recovery (with optional licenses)
- Self-encrypting drives (SEDs)
  provide cost-effective protection for
  archived data alongside secure and
  simple media deletion

### Easy to use by everyone in your team

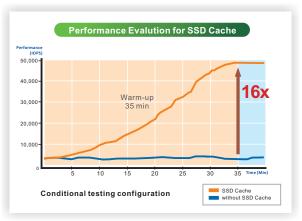
- Exclusive SANWatch 3.0 browserbased GUI features an intuitive and simple design that team members can quickly pick up and make the most of without extensive training
- User interface integrates all system functions to promote full utilization

# Environmentally-minded green design

- Energy efficient components include SoC processor and 80 PLUS power supplies
- Intelligent drive and fan spin down minimize redundant energy consumption

### Storage acceleration with SSD Cache

EonStor DS 1000 systems support large high speed SSD cache pools. SSD Cache speeds up read performance for priority data, and boosts cache pool capacities up to 3.2TB. As many as four SSDs per controller can be used, including SATA SSD. In addition to faster read speeds, SSD Cache reduces performance impact compared to spin-drive caches with rapid warm up and less drive wear. Configuring and managing SSD Cache pooling is easy via the intuitive SANWatch UI.



- \* SSD Cache speeds up read performance by up to 16 times for frequently-accessed
- \* Actual performance gains can vary depending on customer applications.

#### Hybrid host interface with onboard iSCSI

EonStor DS 1000 models incorporate four 1Gb/s iSCSI ports on each controller by default, which can be added to by choosing 8Gb/s or 16Gb/s Fibre Channel, 6Gb/s or 12Gb/s SAS, or 10Gb/s iSCSI to go alongside them. As deployments strive for maximum efficiency and resource consolidation, a hybrid host interface design is of great value, as it supports better performance as well as wider connectivity.

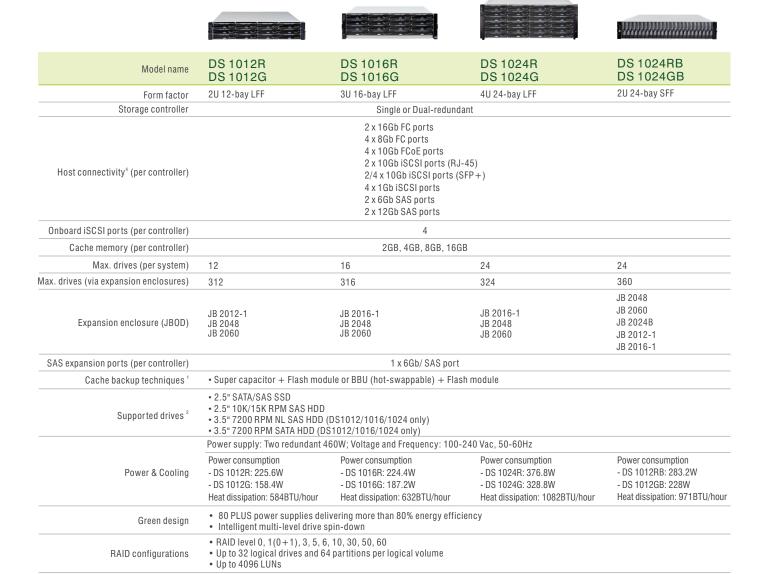
#### Super capacitor or BBU with flash for data protection

Super capacitors do not require replacement and cover the life of the system, ensuring emergency cache power to prevent mission-critical data loss. Alternatively, customers can choose the flexibility of a hotswappable backup battery unit (BBU) with flash, which also safeguards against downtime due to power outages.

### Comprehensive data services

Affordable for smaller businesses, the EonStor DS 1000 series offers enterprise-grade data services such as snapshot and volume copy/mirror to make multiple backups simple and quick. Thin provisioning helps with intelligent storage utilization, while optional 4-level automated storage tiering is the solution you need to leverage high speed drives for frequently-used data. For security and backup, remote replication offers dependable disaster recovery by creating offsite datasets that stay operational even if your main location goes offline. Compatibility with SED (self-encrypting drives) delivers unbreakable defense against disk theft or misplacement and also expedites data deletion

## Technical Specifications



 $<sup>1.\,</sup>EonStor\,DS\,1000G\,models: super\,capacitor\,and\,flash\,module\,or\,BBU\,+\,flash\,module\,optional\,and\,not\,included\,by\,default.$ 

· Safety: UL, BSMI, CB, EAC

Regulatory 3

• Electromagnetic Compatibility: CE, BSMI, FCC, KC

<sup>2.</sup> For the latest compatibility details, refer to our official website for the latest EonStor DS Compatibility Matrix.

<sup>3.</sup> Check with your local sales representative for complete details

<sup>4.</sup> Converged host board supports 4-port 10Gb iSCSI, 4-Port 8 Gb FC, 2-port 16Gb FC and 4-port 10Gb FCoE, 4 port FCoE will be released in Q3, 2016.