



Tyrone Opslag FS2 is a all-in-one storage solution that aims to meet all your requirements for storage virtualization. It is an extremely flexible solution with a wide choice of interface/protocols/disk-subsystem and provides extremely high redundancy. You can use it as a NAS or a SAN. For customers looking for extremely high-performance storage solutions we offer SRP target support & NFSoRDMA (over Infiniband interface). It is a highly scalable solution and can scale up to 384 TB.

#### Host Interface

- Up to six Gigabit Ethernet ports with teaming (fail-over/load-balancing)
- Up to two 10Gb Ethernet
- Up to 2 SDR/DDR/QDR Infiniband (10Gbps/20Gbps/40Gbps)

#### Processor

- Up to two Intel® Xeon® Dual/Quad Core processors

#### Memory

- Up to 16GB System memory with ECC

#### RAID Subsystem

- RAID level 0, 1, 0+1, 3, 5, 6, 10, 50, 60 or JBOD
- 1GB battery backed cache, with ECC
- Online Volume expansion and volume migration
- Global and dedicated hot-spare disks
- Multiple RAID volume support
- Auto Volume rebuilding
- Greater than 2 TB per volume set Drives:
- Supports up to 12/16/24 hot-swap SAS/SATAII HDDs in single box  
(Expandable by adding our storage expansion options)

#### Network File Protocols

- CIFS/SMB, NFS, NFS over RDMA, FTP

#### Block-Storage/SAN Protocols

- iSCSI target, SRP target

#### Supported Clients

- Windows, Linux, FreeBSD, Solaris, Unix, Apple

#### Storage Expansion

- Expandable to 384 TB by using Tyrone expansion solutions.

#### Redundancy/Fault-tolerance features

- Redundant Power Supply
- Host interface fail-over
- Support for RAID6 (can tackle simultaneous failure of two HDDs)
- Multiple Snapshots (point-in-time image of volume) with scheduling
- Volume/Share Replication
- Remote Replication (Block level replication to a 2nd unit) with failover/high-availability

#### Management/Administration/Monitoring

- Management UI via Web based GUI
- IPMI 2.0 compliant management for system health monitoring
- Support for S.M.A.R.T and SNMP

### Processor/Memory

- Processor: Single or Dual Intel® Xeon® Quad-Core processors
- Memory : 2GB – 16GB DDR2 memory with ECC

### RAID/Disk Subsystem

- RAID level 0, 1, 0+1, 3, 5 and 6 with global/dedicated hot-spare disk support
- 256MB/1GB battery backed cache with ECC
- Online volume expansion and volume migration
- Instant RAID volume availability & Auto Volume Rebuilding
- Greater than 2 TB per volume set (64-bit LBA support)
- Multiple RAID volume support
- Supports up to 12/16/24 hot-swap SAS/SATAII HDDs in single box
- Supports up to 384 HDDs using multiple controllers and cascaded storage expansion boxes

### Host Interface:

Default:

2 x Gigabit Ethernet with fail-over/load balancing

Optional upgrades:

Up to 6 x Gigabit Ethernet with teaming (fail-over/load-balancing)

Up to 2 x 10Gb Ethernet with fail-over

Up to 2 x Infiniband (SDR/DDR/QDR)

### Management

- Web Based GUI
- IPMI 2.0 compliant management for system health monitoring
- Support for S.M.A.R.T and SNMP

### Environmental Specifications:

Temperature : +5°C to +35°C Operating, -40°C to +70°C Non-operating

Humidity : 15% to 80% non-condensing (Operating)

5% to 90% non-condensing (Non-Operating)

### The model list will be as follows

	FS2-S2A3-12	FS2-D3AT-16	FS2-D3A3-16	FS2-D4A3-24	FS2-D2AT-24
Host Interface					
Gigabit Ethernet	Default: 2 Max: 6	Default: 2 Max: 6	Default: 2 Max: 6	Default: 2 Max: 6	Default: 2 Max: 6
10Gb Ethernet	Optional	Optional	Optional	Optional	Optional
Infiniband	X	X	Optional	Optional	Optional
CPU	Single	Dual	Dual	Dual	Dual
Memory	2GB	4GB	4GB	8GB	8GB
HDD bays	12	16	16	24	24
HDD type	SAS/SATA	SATA	SAS/SATA	SAS/SATA	SFF SATA/SSD
Max. exp	256	16	384	384	24
CIFS/SMB, NFS, FTP	✓	✓	✓	✓	✓
iSCSI	✓	✓	✓	✓	✓
NFSoRDMA, SRP	X	X	Optional	Optional	Optional
HTTP	Proposed	Proposed	Proposed	Proposed	Proposed
Snapshot	✓	✓	✓	✓	✓
Replication	X	✓	✓	✓	✓
High Availability	X	X	X	Optional	Optional
RPS	✓	✓	✓	✓	✓
Form Factor	2U	3U	3U	4U	2U

Specifications subject to change without notice. Please contact for latest specifications.