Tyrone

D2-QIT 10GbE ISCSI-6G SAS High Availability Systems

Opslag storage systems are designed for high availability, non-stop and mission critical services, applications demanding high IOPS / throughput, and flexible storage planning with cost effectiveness for small and medium enterprises solutions.



Highlights

- 1. Fully redundant & hot pluggable designs: RAID controllers, power sup plies, fan modules, battery backup modules, & JBOD expansion.
- 2. Two (2) 10GbE iSCSI ports & Two (2) iSCSI ports per controller.
- 3. Hardware iSCSI offload engine
- 4. Green storage designs: auto disk spin down, advnced cooling mecha nism,& 80 PLUS energy-efficient power supplies.
- 5. Advanced data protection: RAID6, 60, writeable snapshot, Windows VSS support. TReplica remote replication, volume cloning
- 6.Flexible volume management for multiple application & environments: (VMWare, Hyper-V, Citrix support), cloud, storage, SQL, Exchange, Surveillance, file backup, email, boot from SAN, & etc.
- 7. High connection availability: load balancing & failover.
- 8. Extendable capacity up to 192 hard drives

High Availability

D2-QIT 10GbE iSCSI system is specially designed for high availability applications. The D2-QIT has fully redundant components including redundant RAID controllers, power supplies, fan modules, battery backup modules and SAS JBOD expansion ports. All of these components are hot-swappable to create a high availability platform and provide non-stop services. Special features in firmware are RAID 6, 60 support, Opslag writable snapshot, Windows VSS support, volume cloning, QReplica remote replication, and volume configuration restoration. All these features are designed to add an extra layer of protection to your valuable data. To raise the bar higher, D2-QIT can upgrade firmware without system down time. Both firmware image and volume handling are well protected by the redundant RAID controllers. When one RAID controller is down or disconnected, the other RAID controller will take over all tasks immediately and seamlessly.

Applications

The optimized IOPS and throughput are capable of providing run-time critical online services, such as Cloud storage, SQL, Exchange, and high-end surveillance storages. Furthermore, with the 10GbE iSCSI interface, D2-QIT is ideal for virtualization environments - VMWare, Hyper-V, and Citrix. Users can install up to 128 OSes in the 10GbE iSCSI system through the Boot-from-SAN feature. With this feature, the multiple OSes/Servers can be managed easily and well protected by Opslag's advanced data protection features, and there will be no system downtime caused by single point of failure.

Outstanding Performance

The D2-QIT's powerful RAID controllers provide much higher IOPS and throughput than other storage systems within the same segment in the current market. The D2-QIT can minimize your cost and optimize your investment, simplify storage planning, and integrate more applications.

Green

All D2-QIT system has Opslag default power saving feature. In most cases, the hard drives consume most power. With the auto disk spin down feature and proper configuration, the power consumption of hard drives can be reduced to a minimum, and users will not even notice this feature. D2-QIT monitors the environment temperature for cooling mechanism and the fan modules respond accordingly. The power supply modules are all 80 PLUS power efficient for better power converting rate. In virtue of the reduction of hard drive power consumption, the advanced cooling mechanism, and the energy-efficient power supplies, we can use energy more efficiently and reduce unnecessary carbon footprint.

Default Built-In Data Protection Features

The D2-QIT systems are built-in with Opslag's highly reliable data protection features, from writeable snapshot, volume cloning, to remote replication. Your valuable data can be easily safeguarded and synchronized locally and remotely. In case of accidents, data corruption, virus, and even disasters, the services and applications can be recovered in a very short time.

Ordering Information

Controller Configuration D2-QIT-316D, D2-QIT-424D, D2-QIT-224D

D2-QIT-316C, D2-QIT-424C, D2-QIT-224C

Dual controllers* Single controller*

Optional Components

6G MUX Board SATA drivers support 8GB RAM 8GB RAM support TReplica license

Hardware Components

	D2-QIT-424D	D2-QIT-316D	D2-QIT-224D
	D2-QIT-424C	D2-QIT-316C	D2-QIT-224C
RAID Controller	Dual Controllers Single Controller	Dual Controller s Single controller	Dual Controllers Single controller
No. of Host Channels Per Controller	2 × 10 Gb/s iSCSI (SFP+) 2 × 10 b/s iSCSI (RJ45)	2×10Gb/s iSCSI (SFP+) 2×1Gb/s iSCSI (RJ45)	2 × 10Gb/s iSCSI (SFP+) 2 × 1Gb/s iSCSI (RJ45)
Expansion Enclosure	D1-Q.18 series	D1- 0 J8 seri c	D1-Q.B series
Cache Memory Per Controller	4GB with battery backup for 72 hours protection. Up to 8GB	4GB with battery backup for 72 hours protection. Up to 8GB	4GB with battery backup for 72 hours protection. Up to 8GB
No. of Hard Drives (BGbs SAS & SATA)	24×3.5	16 ×3.5"	24×2.5'
Max. no. of hard drives	192	192	192
Power Supply	3×500W	2×500W	2×500W
Fan	2	2	2
Dimensions	4U 19" Rackmount 422.\$mm×500.6mm× 176.0mm (₩× D ×H)	3U 19"Radumount 4222.8mm × 5€0.6mm × 130,0mm (W × D × H)	2U 19" Rackmount 446.0mm×542.0mm×83.0mm (W× D ×H)
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Feature Highlights

Auto disk spin down

5% to 96% non-condensing

	Auto disk spin down		
Green	Advanced cooling mechanism		
	80 PLUS energy-efficient power supplies		
Host Interfaces: 10 Gb iSCSI Gbe iSCSI	Hardware iSCSI offload engine Jumbo frame Header/Data digest CHAP authentication VirtualLAN Role based access control / Active directory Up to 128 multiple nodes support Up to 128 mets support Up to 128 hosts support Up to 1024 sessions per controller		
Raid & Volume	RAID level 0, 1, 0+1, 3, 5, 8, 10, 30, 50, JBOD, N-way mirror Up to 1024 logical volumes Up to 32 hard drives per volume group Once logical volume can be shared by as many as 16 hosts Global and dedicated hot spare Write-through or white-back cache policy Online volume expansion Irstant RAID Volume availability Auto volume rebuilding On-line volume migration without system down time		
High Availability	Dual-active RAID controller Cache mirroring through high bandwidth channels Flexible RAID group ownership management Management port seamless take-take over Online firmware upgrade, no system down time Multi-path & load-balancing support (Micres oft MP10, MC/S, Trunking, LACP)		
Advanced Data Protection	DPSLAG's writables namehot Microsoft Windows Volume Shadow Copy Services (VSS) Configurable N-way mirror Instant volume configuration restoration Hotpluggable battery backup module (BBM)		
Management	LCM; Serial console; SSH tehet; HTTP Web UI; Secured Web (HTTPS); S.E.S.		
Notification	Email; SNMP trap; Browser pop up windows; Syslog; Windows Messenger		
OS Support	Windows:Linu× Solaris:Mac		
Virtualization	VMWvare; Hyper-V, Citrix		
Warranty	System: One year, Battery backup module: One year		
Requirements			
AC Output	100-248V ~ 7A 4A 388W with PF C(Auto Switching)		
DC Output	3.3V25A:5V32A: 12V40A		
Operating Temperature	0 to 40°C		
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Relative Humidity

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Let's Talk

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