

Product Highlights

High Performance

High performance iSCSI SAN controller capable of handling heavy enterprise tasks uninterrupted, with added redundancy features

iSCSI SAN Storage Architecture

State-of-the-art hardware configurations, dual active controllers and fully modular components allow users to do more with less

Value-added Applications

iSCSI SAN applications provide a complete backup solution, offering both local backup and remote backup



DSN-6210/6510

1 GbE / 10 GbE IP SAN Storage

Features

Storage

- Twelve easy-to-load hard drive bays accept any capacity 3.5" SATA or 2.5" internal drive¹
- Multiple RAID types for a wide range of storage options (JBOD, RAID 0, 1, 3, 5, 6, 10, 30, 50, 60)
- SAS JBOD expansion port

Performance

- Flexible volume management for multiple applications including virtualization
- High connection availability for load balancing and failover
- Capacity extendable up to 256 HDD
- Thin provisioning to enable dynamic capacity allocation
- Faster, more powerful hardware and add-on software features provide a more streamlined solution
- 2 x 400W redundant power supply
- Fully redundant and hot-pluggable design
- Intuitive online GUI with volume management and expansion
- Writable snapshot and storage based replication

Green Technology

- Redundant 80+ Gold
- Power-efficient SSD drive support
- Auto disk spin down
- Energy efficient power supply

The DSN-6210/6510 is a cost-effective 1GbE / 10 GbE IP SAN Storage system designed for small to medium sized businesses. Available in different configurations of GbE iSCSI, 10 GbE iSCSI and SAS interfaces, the DSN-6210/6510 series provides a flexible and intelligent Storage Area Network (SAN) solution for virtualized server environments and data storage. With its high performance iSCSI SAN storage platform, it can provide non-stop service with a high degree of fault tolerance by using D-Link RAID technology and advanced array management features. This, coupled with a redundant controller and power supply, ensures that valuable data is never lost.

High Availability

With the DSN-6210/6510's built-in redundancy features you can ensure your system is never down. The series are equipped with redundancy components for major functions, such as dual power supplies and dual fan modules. They also have the option of being equipped with dual redundant RAID controllers and SAS JBOD expansion ports. These hot-pluggable modules make sure the DSN-6210/6510 is capable of providing uninterrupted network services. The firmware includes support for different RAID levels, read-only or writable snapshots, Windows VSS and volume configuration restoration. These advanced features help to reduce and eliminate any system downtime. Also, distinct from other systems in their class, you can upgrade the firmware of the DSN-6210/6510 without going offline. The series ensures that firmware images and volume handling are protected by redundant RAID controllers. When one RAID controller is down or disconnected, the other RAID controller takes over its tasks immediately. The volumes and their related services are transferred seamlessly and simultaneously.

Green Energy Savings

The DSN-6210/6510 are equipped with D-Link Green power-saving features. A hard drive can be the most power-hungry component in a SAN and can cause high operating costs. When properly configured, the auto disk spin down feature can reduce the power consumption of hard drives to a minimum. This not only saves money by conserving power but also prolongs the life of your hard drives. The series monitors environmental

temperatures so the fan modules respond only when needed. The power supply modules are all 80 PLUS power efficient, providing a more favorable power conversion rate. When combined, these power-saving features help to greatly reduce energy consumption and save the user money in power bills.

Business Value-Added Features

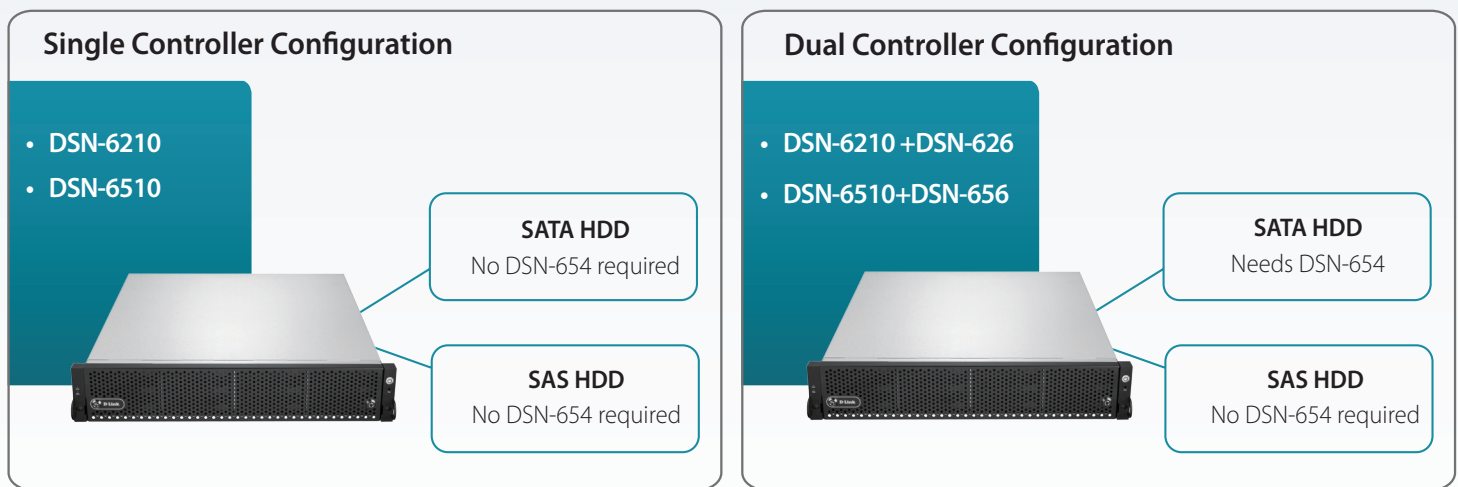
The optimized IOPS and throughput enable the DSN-6210/6510 to provide runtime-critical online services, such as cloud storage, local and remote backup, SQL, Exchange and high-end surveillance storage. Furthermore, with the iSCSI interface, DSN-6210/6510 storage systems

are ideal for virtualization environments such as VMWare, Hyper-V and Citrix.

SATA Bridge Board (DSN-654)

The DSN-654 SAS to SATA bridge board is designed to enable single-ported SATA drives to connect seamlessly like native dual-ported SAS drives. The DSN-654 is required for each drive, for SATA deployments in a dual controller configuration as described in the diagram below. Also, these same rules will apply to SATA drives installed in any additional DSN-6020 expansion enclosures.

SATA drives in the following configurations need a SATA bridge board:



Technical Specifications

DSN-6210	<ul style="list-style-type: none"> Six 1GbE Copper iSCSI Ports
DSN-6510	<ul style="list-style-type: none"> Two 10GbE iSCSI Ports (comes standard with one SFP+ transceiver and one LC fiber cable) and two 1GbE iSCSI Ports
General	
Supported Hard Drive Types	<ul style="list-style-type: none"> Up to 12 SATA II / SATA III HDD or SSD¹
Memory	<ul style="list-style-type: none"> 4 GB DDR3 ECC
Processor	<ul style="list-style-type: none"> Intel S1200 series
Fan	<ul style="list-style-type: none"> 2x System fan
Ports	<ul style="list-style-type: none"> Management Console RS 232 port SAS JBOD expansion port USB
LEDs	<ul style="list-style-type: none"> Status Access GbE Activity GbE Connection/Speed
Front-end	<ul style="list-style-type: none"> DSN-6210 6x GbE iSCSI ports per controller DSN-6510 2x 10GbE iSCSI ports (SFP+) + 2x GbE iSCSI ports per controller
Form Factor	<ul style="list-style-type: none"> 2U 12-Bay 19" rackmount

Functionality		
RAID and Volume	<ul style="list-style-type: none"> RAID level 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60, JBOD, N-way mirroring Up to 2048 logical volumes Up to 64 hard drives per volume group One logic volume can be shared by as many as 16 hosts Global and dedicated hot spare Write-through or write-back cache policy 	<ul style="list-style-type: none"> Online volume expansion Instant RAID volume availability Auto volume rebuilding On-line volume migration without system down time SSD caching (License) Thin provisioning
Host Interfaces iSCSI	<ul style="list-style-type: none"> CHAP authentication Virtual LAN iSNS support 	<ul style="list-style-type: none"> Up to 64 multiple nodes support Up to 64 hosts support Up to 256 sessions per controller
Networking	<ul style="list-style-type: none"> DHCP and static IP support NTP client Trunking / LACP / Teaming 	<ul style="list-style-type: none"> VLAN tagging Jumbo frame support
Data Protection	<ul style="list-style-type: none"> Remote replication Snapshot Volume cloning Microsoft Windows Volume Shadow Copy Services (VSS) 	<ul style="list-style-type: none"> Configurable N-way mirror Online disk roaming Instant volume restoration Hot pluggable battery backup module
Management	<ul style="list-style-type: none"> Java-based centralized management software Serial console HTTP Web UI Secured Web (HTTPS) SSH telnet 	<ul style="list-style-type: none"> LED indicators Event notification via email, SNMP trap, browser pop-up windows, Syslog and Windows Messenger Wake-on-LAN
Operating System Support	<ul style="list-style-type: none"> Windows 7, Windows Server 2003 R2, 2008, 2008 R2 & 2012 Red Hat Enterprise Linux 5/6 	<ul style="list-style-type: none"> Solaris 10/11 Mac OS X 10.6 or higher
Virtualization	<ul style="list-style-type: none"> VMware 5.1 + VAAI or above Citrix 	<ul style="list-style-type: none"> Hyper-V 3.0
Web Browsers Supported	<ul style="list-style-type: none"> Internet Explorer Mozilla Firefox 	<ul style="list-style-type: none"> Apple Safari Google Chrome
Green	<ul style="list-style-type: none"> Wake-on-LAN to turn on or wake up the system only when necessary 80 Plus Gold energy-efficient power supplies 	<ul style="list-style-type: none"> Auto disk spin down
Physical		
Dimensions	<ul style="list-style-type: none"> 17.55 x 19.64 x 3.46 inches (446 x 499 x 88 mm) 	
Weight	<ul style="list-style-type: none"> 55.11 lbs (25 kg) 	
Power	<ul style="list-style-type: none"> Input: 90 to 264 V AC, 50/60 Hz 	<ul style="list-style-type: none"> Supply type: Dual Hot-Swappable 2x400W
Operating Temperature	<ul style="list-style-type: none"> 23 to 113 °F (-5 to 45 °C) 	
Relative Humidity	<ul style="list-style-type: none"> 5% to 95% non-condensing 	
Certifications	<ul style="list-style-type: none"> CE FCC 	<ul style="list-style-type: none"> BSMI

DSN-6210/6510 1 GbE / 10 GbE IP SAN Storage

Order Information	
Part Number	Description
DSN-6210	6x1GbE iSCSI SAN Array, 12 Bays, 2U, w/Primary Controller
DSN-6510	2x10GbE and 2x1GbE iSCSI SAN Array, 12 Bays, 2U, w/Primary Controller
DSN-6020	iSCSI SAN Expansion JBOD, 12 Bays, 2U
DSN-626	6x1GbE iSCSI SAN Controller for DSN-6210
DSN-656	2x10GbE and 2x1GbE iSCSI SAN Controller for DSN-6510
DSN-652	HDD tray
DSN-654	SATA Bridge Board
DSN-666	LCD Monitor
DEM-431XT-DD	10Gigabit SFP + Adapter (DSN-6510 and DSN-656)
DSN-6210-LW	Extended Warranty for the DSN-6210
DSN-6510-LW	Extended Warranty for the DSN-6510
DSN-6020-LW	Extended Warranty for the DSN-6020
DSN-626-LW	Extended Warranty for the DSN-626
DSN-656-LW	Extended Warranty for the DSN-656

¹When any SATA hard drive is used in a dual-controller configuration, each SATA hard drive requires a DSN-654 SATA bridge board. Also, these same rules will apply to SATA drives installed in any additional DSN-6020 expansion enclosures used in the SAN array.

For more information

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