


# D-Link®

## Interoperability Matrix

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This matrix references items that have been successfully tested with our DSN-1100, 2100, 3200, 3400 and 5000 Series SAN solutions. If there is an item of interest to you that does not appear on this list, please feel free to contact D-Link. For specific installation and update instructions, please reference the respective 3<sup>rd</sup> party documentation.



NIC VENDOR	MODEL
Intel	Pro 1000MT & XT [1GbE]
Intel	Pro 10000 CX4 [10GbE]
Myricom	10G-PCIE-8A-C+E [10GbE]
Chelsio	S310X-SR-XFP [10GbE]
Neterion	Xframe II & Xframe E [10GbE]
iSCSI ACCELERATOR VENDOR	MODEL
Alacritech	SES2104ET (drivers: SNP 9.1.0.1092 & 7.3.1.0)
Alacritech	SES2102ET (drivers: SNP 9.1.0.1092 & 7.3.1.0)
iSCSI HBA VENDOR	MODEL
QLogic	QLA4010C   QLA 4052C   QLE4062C
SWITCH VENDOR	MODEL
Dell	Power Connect 3424 [1GbE] (requires 1GbE connections)
Dell	Power Connect 5224 [1GbE]
Cisco	Catalyst 2960 [1GbE]
Raptor	ER 1010 [10GbE]
Fujitsu	XG1200 [10GbE]
HP	ProCurve 6400cl (J8433A) [10GbE] w/ XENPAK SR (J8175A)
D-Link	DXS 3250 & 3350 [1GbE & 10GbE]
Extreme	Summit 400-48T
Force10	S-Series S2410 [1GbE & 10GbE]
10GbE XFP TRANSCEIVER VENDOR	MODEL
D-Link	DEM-421XT [850nm]
D-Link	DEM-422XT [850nm]
Picolight (JDSU)	PL-XXL-SC-S45-SS [850nm]
JDS Uniphase	JXP-01SWAA1 [850nm]
Intel	TXN181070850X28 [850nm]
Infineon	V2833-F0005-B101 QS [850nm]
Emcore CX4 Transceiver	ECX-7700-XFP-01 [Copper]



# Operating System.ZONE

MICROSOFT	NOTES
Vista 32-bit & x64 (Ultimate & Enterprise)	MS iSCSI initiator
Windows Server 2003 R2   SP1 32 & 64-bit (Standard & Enterprise)	MS iSCSI initiator v2.07 or later
Windows Server 2008 Enterprise 32 & 64-bit	MS iSCSI initiator
Windows XP Pro 32 & 64-bit	MS iSCSI initiator or later
Windows 2000 Advanced Server	No MS iSCSI Initiator support, QLogic HBA only
LINUX	NOTES
Red Hat 7.3	Open Source Linux Driver Version: 3.6.3   QLogic iSCSI HBA QLA4010c, QLA4010 Driver Version: 3.09b1, Firmware Version: 2.0.0.5
Red Hat Enterprise AS 4 update 5 (64-bit)	Kernel: 2.6.9-55 Enterprise linux   software iSCSI initiator: iscsi-initiator-utils-4.0.1.11-4
Red Hat Enterprise 5 update 2 (64-bit)	Increased compatibility with latest stable release of open-iscsi initiator v2.0-865.15 & 1.6.2 Software release
SuSE Professional 9.3 32-bit	Linux Software Initiator version 4.0.188.18 (Cisco)
SuSE Enterprise Server 10.2 32-bit	NOTE: Using QLogic QLA4010C HBA w/3.22 driver Kernel: 2.6.16.46-0.12_smp i386 32-bit
UNIX	NOTES
Sun Solaris 10 build 6/06	SUN iSCSI Software Initiator 1.0 (Bundled with release 01/06 or later). MPIO not tested.
IBM AIX 5L	AIX Software Initiator 5.3.0.20 (Bundled with operating system). MPIO not tested.
VMware	NOTES
ESX Server 3.0.2 (DSN-1000/2000/3000 Series) & 3.5 (DSN-5000 Series) (certified)	Must have v1.5.1.36 or higher in order to use the software iSCSI initiator. Or, simply use either QLogic 4010C or 4052C HBAs for hardware iSCSI initiator connectivity
ESX Server 4.0 (DSN-1000/2000/3000/5000 Series) (certified)	Must have v2.6.0.23 or higher in order to use the software iSCSI initiator.
Virtual Iron	NOTES
Virtual Iron v4.2	Use v1.6.0.81 or higher
XenSource	NOTES
Citrix XenServer v4 (certified)	Basic iSCSI Connectivity w/ v1.6.0.81 or higher
Apple	NOTES
Mac OSX (10.4 & 10.5)	iSCSI Software Initiators: <ul style="list-style-type: none"> <li>- ATTO Xtend SAN 3.2</li> <li>- Studio Network Solutions GlobalSan v3.3.0.43</li> </ul>



**DSN-1000/2000/3000 Series**

SATA	CAPACITY	CACHE	MODEL	PART #	FW
Hitachi Ultrastar	500GB	32MB	HUA721050KLA330	0A35151	AB0A
Hitachi Ultrastar	750GB	32MB	HUA721075KLA330	0A35152	AB0A
Hitachi Ultrastar	1TB	32MB	HUA721010KLA330	0A35153	AB0A
Hitachi Ultrastar	500GB	32MB	HUA722050CLA330	0F11000	A20N
Hitachi Ultrastar	1TB	32MB	HUA722010CLA330	0A39289	A20N
Hitachi Ultrastar	2TB	32MB	HUA722020CLA330	0F10452	A20N
Seagate	250GB		ST3250620NS		3.AEE
Seagate	400GB		ST3400620NS		3.AEE
Seagate	500GB		ST3500630NS		3.AEE
Seagate	750GB		ST3750640NS		3.AEE
Seagate ES.2	250GB		ST3250310NS	9CA152-502	SN04
Seagate ES.2	500GB		ST3500320NS	9CA154-502	SN04
Seagate ES.2	750GB		ST3750330NS	9CA156-502	SN04
Seagate ES.2	1TB	32MB	ST31000340NS	9CA158-502	SN04, SN06
Seagate ES	500GB	32MB	ST3500514NS		SN11
Seagate ES	1TB	32MB	ST31000524NS		SN11
Seagate ES	2TB	64MB	ST32000644NS	9JW168-501	SN11
Western Digital	36GB		WD360ADFD RAPTOR		
Western Digital	74GB		WD740ADFD RAPTOR		
Western Digital	150GB		WD1500ADFD RAPTOR		
Western Digital RE2	500GB	16MB	WD5001ABYS	WD5001ABYS-01YNA0	59.01D01
Western Digital RE2	750GB	16MB	WD7500AYYS	WD7500AYYS-01RCA0	30.04G30
Western Digital RE2-GP	1TB	16MB	WD1000FYPS	WD1000FYPS-01ZKB0	
Western Digital RE3	1TB	32MB	WD1002FBYS	WD1002FBYS	03.00C05
Western Digital RE4	2TB	64MB	WD2003FYYS	WD2003FYYS	01.01D01
Western Digital RE4-GP	2TB	64MB	WD2002FYPS	WD2002FYPS-01U1B0	



**DSN-5000 Series**

**NOTE: DSN-5000 Series Single Controller systems support SATA or SAS drives for both Primary and Expansion arrays. DSN-5000 Series systems with SATA drives cannot be upgraded to redundant controllers.**

SATA	CAPACITY	CACHE	MODEL	PART #	FW
Hitachi Ultrastar	500GB	32MB	HUA721050KLA330	0A35151	AB0A
Hitachi Ultrastar	750GB	32MB	HUA721075KLA330	0A35152	AB0A
Hitachi Ultrastar	1TB	32MB	HUA721010KLA330	0A35153	AB0A
Hitachi Ultrastar	500GB	32MB	HUA722050CLA330	0F11000	A20N
Hitachi Ultrastar	1TB	32MB	HUA722010CLA330	0A39289	A20N
Hitachi Ultrastar	2TB	32MB	HUA722020CLA330	0F10452	A20N
Seagate	250GB		ST3250620NS		3.AEE
Seagate	400GB		ST3400620NS		3.AEE
Seagate	500GB		ST3500630NS		3.AEE
Seagate	750GB		ST3750640NS		3.AEE
Seagate ES.2	250GB		ST3250310NS	9CA152-502	SN04
Seagate ES.2	500GB		ST3500320NS	9CA154-502	SN04
Seagate ES.2	750GB		ST3750330NS	9CA156-502	SN04
Seagate ES.2	1TB	32MB	ST31000340NS	9CA158-502	SN04, SN06
Seagate ES	500GB	32MB	ST3500514NS		SN11
Seagate ES	1TB	32MB	ST31000524NS		SN11
Seagate ES	2TB	64MB	ST32000644NS	9JW168-501	SN11
Western Digital RE2-GP	1TB	16MB	WD1000FYPS	WD1000FYPS-01ZKB0	
Western Digital RE4-GP	2TB	64MB	WD2000FYPS	WD2000FYPS-01U1B0	
Seagate Constellation ES	2TB	16MB	ST32000444SS	9JX248-002	0005

**NOTE: DSN-5000 Series Dual Controller systems support only SAS drives for both Primary and Expansion arrays.**



**DSN-5000 Series Dual Controller**

**NOTE: DSN-5000 Series Dual Controller systems support only SAS drives for both Primary and Expansion arrays.**

SAS	CAPACITY	CACHE	MODEL	PART #	FW
Fujitsu 15K	73GB		MAX3073RC		
Fujitsu 15K	147GB		MAX3147RC		
Hitachi Ultrastar	300GB	32MB	HUS154530VLS300	0B23318	
Hitachi Ultrastar	450GB	32MB	HUS154545VLS300	0B22890	
Hitachi Ultrastar	300GB	64MB	HUS156030VLS600	0B23661	A392
Hitachi Ultrastar	450GB	64MB	HUS156045VLS600	0B23662	A392
Hitachi Ultrastar	600GB	64MB	HUS156060VLS600	0B23663	A392
Seagate 15K.5	73GB	16MB	ST373455SS	9Z3066-002	0004
Seagate 15K.5	146GB	16MB	ST3146855SS	9Z2066-002	0004
Seagate 15K.5	300GB	16MB	ST3300655SS	9Z1066-002	0004
Seagate 15K.5	400GB	16MB	ST3400755SS		0004
Seagate 15K.6	146GB	16MB	ST3146356SS		0004
Seagate 15K.6	300GB	16MB	ST3300656SS		0004
Seagate 15K.6	450GB	16MB	ST3450856SS		0004
Seagate ES.2	500GB	16MB	ST3500620SS		SN04
Seagate ES.2	750GB	16MB	ST3750630SS		SN04
Seagate ES.2	1TB	16MB	ST31000640SS		SN04
Seagate Constellation ES	2TB	16MB	ST32000444SS	9JX248-002	0005





**DSN-1000/2000/3000 Series**

<b>DDR 333MHz (PC2700) DIMM</b>	<b>PART #</b>
Kingston 256MB	KVR333S8R25/256 A00
Kingston 512MB	KVR333S8R25/512 A02
Kingston 1GB	KVR333S8R25/1G A00
Infineon 256MB	HYS72D32300[G/H]BR-6-C
Micron 512MB	PC2700R-25331
IBM 1GB	MT18VDDF 12872DG-335D3

<b>DDR 400MHz (PC3200) DIMM</b>	<b>PART #</b>
Virtium 256MB	VL383L3223E-B3S
Virtium 512MB	VL383L6523E-B3S
Virtium 1GB	VL383L2923E-B3S

**DIMM SPECIFICATION**

333MHz (PC2700)  
400MHz (PC3200)

**NOTE:** There are four DIMM sockets on the iStor Storage Controller. Two sockets for System memory and two sockets for Cache memory. Either dual rank or single rank are compatible with currently shipping iS3xx series products. It makes no difference if the pairs are different; only that each pair is made up of two matching DIMMs (e.g. two single rank DIMMs for System memory and two dual rank DIMMs for Cache memory).

**SDRAMs must be JEDEC compliant and DDR333 capable with a CAS latency of 2.5.**

**NOTE:** PC3200/DDR400 DIMMs can be used **ONLY** if they support a 2.5 CAS latency when operating at 333MHz.

<b>ECC</b>	DIMMs must be organized as x72 bits wide, allowing support for ECC.
<b>X8 DRAMs</b>	ALL DIMMs must use 8-wide DRAMs that can support data mask (DM) signals. DIMMs that use 4-bit wide DRAMs do NOT provide DM signals and cannot be used.
<b>Registered</b>	DIMMs must be registered as per the JEDEC specification
<b>Buffered</b>	DIMMs must be buffered as per the JEDEC specification



**Software.ZONE**

<b>DATABASE</b>	<b>VERSION</b>
MySQL Enterprise	5
Microsoft SQL	2003
<b>DATA PROTECTION &amp; DR</b>	<b>VERSION</b>
ca BrightStor ARCserve Backup	Client Agent for Windows r12.0 build 5454
Microsoft System Center   DPM	Data Protection Manager v2007
Symantec Storage Foundation	5   32-bit; Windows Server 2003 R2
Symantec BackupExec	11d
InMage DR	Scout   32-bit Windows Server 2003 R2
esXpress	3.1 (the ONLY scalable and completely fault tolerant backup, restore & disaster recovery for Virtual Infrastructure v3.x)
veeam	Backup v2
FilesX Xpress Restore	ST   32-bit Windows Server 2003 R2
Datacore SANmelody	Lite   32-bit Windows Server 2003 R2
Double-Take Software	DT-Backup, DT-Availability
Atempo	Time Navigator, Live Backup
<b>FILE SHARING &amp; SAN MANAGEMENT</b>	<b>VERSION</b>
StoreAge SVM (Storage Virtualization Manager)	5 (MultiView & MultiMirror)
Sanbolic MelioFS	2
Tiger Technology MetaSAN iSCSI	2.2
CommandSoft FibreJet	2.5.9
<b>VIDEO EDITING &amp; WORKFLOW</b>	<b>VERSION</b>
Apple Final Cut Pro	5
Adobe Premiere Pro	2
<b>VIRTUALIZATION</b>	<b>VERSION</b>
Microsoft Virtual Server	2005 R2
VMware ESX Server (CERTIFIED)	3.0.2, 3.5, 4.0
VMware Server	1.02
Microsoft Hyper-V	As distributed w/Windows Server 2008 Enterprise 64-bit
VMware Workstation	6
Virtual Iron v4.2	Requires firmware v1.6.0.81 or higher
XenSource (CERTIFIED)	Citrix XenServer v4
<b>BOOT FROM SAN</b>	<b>VERSION</b>
emboot winBoot/i	2.5