



Product Bulletin:

FAS2000 Series Product - Updated

Revision History

31 August 2009 – Introduction of FAS2040 to FAS2000 Series

14 December 2009 – added upgrade SKUs and 600GB SAS part numbers

15 March 2010 – added new 600GB SAS part numbers

28 May 2010 – added new 2TB SATA part numbers for FAS2020 and FAS2040

13 December 2010 – added FAS2040 QuickStart Bundles and new FAS2020 SKU

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This product bulletin informs NetApp sales and NetApp partners about new or changed NetApp® products or services.

1. Summary
2. What's New?
3. Sales and Customer Ready Tools
4. System Requirements
5. Product Information
6. Regulatory Compliance
7. Warranty and Service
8. Additional Information

1. Summary

NetApp continues to build momentum for its FAS2000 line with the introduction of the FAS2040 storage system, the new flagship for NetApp's award-winning entry line. The FAS2040 doubles performance and increases maximum capacity by 30%, making it the ideal storage platform for Midsize Enterprise and distributed enterprise customers' most demanding Windows® applications and workloads.

The latest development in the FAS2000 product line is the FAS2040 QuickStart Bundles. Aimed at our reseller community, these bundles consist of the most popular FAS2040 configurations and the Windows Software Bundle. These bundles are NOT eligible for pricing 'PVRs' or configuring (they utilize the same discount category code as the FAS2020 fixed configurations (XB)). These bundles are available in addition to the other, configurable FAS2040 products – no change to those products.

2. What's New?

Introducing the FAS2040 Storage System

- Doubles performance versus the FAS2050
- Higher maximum capacity (272 TB with 2TB SATA drives!)
- More GbE ports (4 per controller, 8 total for dual)
- Integrated SAS ports (1 per controller, 2 total for dual)
- Data ONTAP® 8 ready
- Fully configurable product offering along with three easy configurations (HW+Windows Software Bundle) for quick sale situations

- Easy-in-box upgrade from FAS2020

Key Product Highlights⁽¹⁾

	FAS2020	FAS2040	FAS2050
Maximum Disk Drives Maximum Raw Capacity	68 68TB	136 ² 272TB	104 104TB
System Configuration	1 or 2 controllers in a single 2U chassis	1 or 2 controllers in a single 2U chassis	1 or 2 controllers in a single 4U chassis
Memory	2GB	8GB	4GB
Max 4Gb/sec FC Ports	4	4	8 ³
Max 1GbE Ports	4	8	8 ³
Onboard SAS Port	—	2	4 ³
10GbE Card Support	—	—	√
FCoE Adapter Support	—	—	√
Multipath HA	—	—	√
Expansion			
Data ONTAP Support	7.2.2L1 and later 7.3 and later No 8.0 support	7.3.2 and later 8.0	7.2.2L1 and later 7.3 and later No 8.0 support

¹ All specifications are for dual controller, active-active configurations.

² Maximum spindles requires a mix of DS14 and DS4243 (target availability December 2009).

³ Maximum ports combines integrated ports with I/O expansion cards.

Configurations

Controller	Internal SATA	Internal SAS	Maximum Aggregate Support
FAS2020 Single ¹	6x500GB 6x 1TB 12x500GB 12x 1TB 12x 2TB ²	12x300GB	8TB
FAS2020 Dual ¹	12x500GB 12x1TB	12x300GB 12x450GB 12x 600GB	8TB
FAS2040 Single	6x500GB 12x500GB 6x1TB 12x1TB 12x 2TB	12x300GB 12x450GB 12x 600GB	16TB
FAS2040 Dual	12x500GB 12x1TB 12x 2TB	12x300GB 12x450GB 12x 600GB	16TB
FAS2050 Dual ¹	20x1TB	20x300GB 20x450GB 20x 600GB	16TB

¹ FAS2020 and FAS2050 systems must quote external storage, cabinets, and switches outside the system configuration

² FAS2020 with 2TB drive configs require 7.3.2 or higher (no 8.0 support).

3. Sales and Customer Ready Tools (Training, SE, Customer Presentations, Datasheets, Sales Guides)

For more information about the FAS2000 series, go to the NetApp [Field Portal](#) for updated product bulletins and documents. Key word search: "FAS2000 Sales Kit binder"

4. System Requirements

Refer to the [NetApp Support \(NOW\)](#)[™] (NetApp on the Web) site for supported platforms and compatibility matrix.

5. Product Information

The following table lists hardware and software part numbers as of the date of this product bulletin.

Part Number	Description	Discount Category Code
FAS2020		
FAS2020-6X500-BASE-R5	FAS2020,6x500GB,Base,R5	XB
FAS2020-6X1000-BASE1-R5	FAS2020,6x1TB,Base1,R5	XB
FAS2020-12X500-BASE-R5	FAS2020,12x500GB,Base,R5	XB
FAS2020-12X1000-BASE2-R5	FAS2020,12x1TB,Base2,R5	XB
FAS2020-12X2000-BASE-R5	FAS2020,12x2TB,Base,R5	XB
FAS2020-12X300-BASE-R5	FAS2020,12x300GB,Base,R5	XB
FAS2020A-12X500-BASE-R5	FAS2020A,12x500GB,Base,R5	XB
FAS2020A-12X1000-BASE-R5	FAS2020A,12x1TB,Base,R5	XB
FAS2020A-12X300-BASE-R5	FAS2020A,12x300GB,Base,R5	XB
FAS2020A-12X450-BASE-R5	FAS2020A,12x450GB,Base,R5	XB
FAS2020A-12X600-BASE2-R5	FAS2020A,12x600GB,Base,R5	XB
SW-BASE-PK-P	SW,BASE Pack,-P	XJ
SW-T1-CIFS-S-C	Software,CIFS,T1,Special,-C	XJ
SW-T1C-CIFS-S-C	Software,CIFS,T1C,Special,-C	XJ
SW-T1-NFS-S-C	Software,NFS,T1,Special,-C	XJ
SW-T1C-NFS-S-C	Software,NFS,T1C,Special,-C	XJ
FAS2020A-HA-SW-R5	FAS2020A,HA CFO Software,R5	XJ
SW-T1C-FOUNDATION-PACK-P	SW,Foundation Pack,T1C,-P	XJ
SW-T1-FOUNDATION-PACK-P	SW,Foundation Pack,T1,-P	XJ
SW-T1-PROTECTION-PACK-P	SW,Protection Pack,T1,-P	XJ
SW-T1C-PROTECTION-PACK-P	SW,Protection Pack,T1C,-P	XJ
SW-T1-ADVANCED-PACK-P	SW,Advanced Pack,T1,-P	XJ
SW-T1C-ADVANCED-PACK-P	SW,Advanced Pack,T1C,-P	XJ
SW-T1-APPLICATION-PACK-P	SW,Application Pack,T1,-P	XJ
SW-T1C-APPLICATION-PACK-P	SW,Application Pack,T1C,-P	XJ
SW-T1-SERVER-PACK-P	SW,Server Pack,T1,-P	XJ
SW-T1C-SERVER-PACK-P	SW,Server Pack,T1C,-P	XJ
SW-T1-WIN-BNDL-P	SW,Win Bndl,SW,NetApp Select,T1,-P	XJ
SW-T1C-WIN-BNDL-P	SW,Win Bndl,SW,NetApp Select,T1C,-P	XJ
SW-T1-VRTL-BNDL-P	Srvr VrtlBndl,NetApp Select,T1,-P	XJ
SW-T1C-VRTL-BNDL-P	Srvr VrtlBndl,NetApp Select,T1C,-P	XJ
SW-T1-COMP-BNDL-P	SW,Complete Bndl,NetApp Select,T1,-P	XJ
SW-T1C-COMP-BNDL-P	SW,Complete Bndl,NetApp Select,T1C,-P	XJ
FAS2040		
FAS2040-6-X298A-R5-C	FAS2040,Disk Shelf,6x1.0TB SATA,-C,R5	B
FAS2040-6-X289A-R5-C	FAS2040,Disk Shelf,6x450 SAS,-C,R5	B
FAS2040-6-X287A-R5-C	FAS2040,Disk Shelf,6x300GB SAS,-C,R5	B
FAS2040-12-X299A-R5-C	FAS2040,Disk Shelf,12x2.0TB SATA,-C,R5	B
FAS2040-12-X298A-R5-C	FAS2040,Disk Shelf,12x1.0TB SATA,-C,R5	B

FAS2040-12-X289A-R5-C	FAS2040,Disk Shelf,12x450 SAS,-C,R5	B
FAS2040-12-X287A-R5-C	FAS2040,Disk Shelf,12x300GB SAS,-C,R5	B
FAS2040-0-SHELF-R5-C	FAS2040,SHELF,AC,ZERO HDD,-C,R5	B
FAS2040-6-X282B-R5-C	FAS2040,Disk Shelf,6x500GB SATA,-C,R5	B
FAS2040-12-X282B-R5-C	FAS2040,Disk Shelf,12x500GB SATA,-C,R5	B
FAS2040-BASE-R5-C	FAS2040 System Controller,-C,R5	A
FAS2040A-BASE-R5	FAS2040A,Act-Act,System Controller,R5	A
FAS2040A-QSWIN-SAS1-R5	FAS2040 HA QuickStart,12x450GB SAS,R5	XB
FAS2040A-QSWIN-SATA1-R5	FAS2040 HA QuickStart,12x1TB SATA,R5	XB
FAS2040A-QSWIN-SATA2-R5	FAS2040 HA QuickStart,12x2TB SATA,R5	XB
SW-DSANIT-C	SW,Disk Sanitization,-C	J
SW-FLEXCACHE-C	SW,FlexCache,NFS,-C	J
SW-2040-SVAL-C	SW,SnapValidator,2040,-C	J
SW-2040A-SVAL-C	SW,SnapValidator,2040A,-C	J
SW-2040-CIFS-C	SW,CIFS,2040,-C	J
SW-2040A-CIFS-C	SW,CIFS,2040A,-C	J
SW-2040-NFS-C	NFS Software,2040,-C	J
SW-2040A-NFS-C	NFS Software,2040A,-C	J
SW-2040-FOUNDATION-PK-C	SW,Foundation PK,2040,-C	J
SW-2040A-FOUNDATION-PK-C	SW,Foundation PK,2040A,-C	J
SW-2040-PROTECTION-PK-C	SW,Protection PK,2040,-C	J
SW-2040A-PROTECTION-PK-C	SW,Protection PK,2040A,-C	J
SW-2040-ADVANCED-PK-C	SW,Advanced PK,2040,-C	J
SW-2040A-ADVANCED-PK-C	SW,Advanced PK,2040A,-C	J
SW-2040-APPLICATION-PK-C	SW,Application PK,2040,-C	J
SW-2040A-APPLICATION-PK-C	SW,Application PK,2040A,-C	J
SW-2040-SERVER-PK-P-C	SW,Server PK,2040,-C	J
SW-2040A-SERVER-PK-P-C	SW,Server PK,2040A,-C	J
SW-2040-CLUSTER	CFO Software,2040	J
SW-DSANIT	SW,Disk Sanitization	J
SW-FLEXCACHE	SW,FlexCache,NFS	J
SW-2040-SVAL	SW,SnapValidator,2040	J
SW-2040A-SVAL	SW,SnapValidator,2040A	J
SW-2040-CIFS	SW,CIFS,2040	J
SW-2040A-CIFS	SW,CIFS,2040A	J
SW-2040-NFS	NFS Software,2040	J
SW-2040A-NFS	NFS Software,2040A	J
SW-2040-FOUNDATION-PK	SW,Foundation PK,2040	J
SW-2040A-FOUNDATION-PK	SW,Foundation PK,2040A	J
SW-2040-PROTECTION-PK	SW,Protection PK,2040	J
SW-2040A-PROTECTION-PK	SW,Protection PK,2040A	J
SW-2040-ADVANCED-PK	SW,Advanced PK,2040	J
SW-2040A-ADVANCED-PK	SW,Advanced PK,2040A	J
SW-2040-APPLICATION-PK	SW,Application PK,2040	J
SW-2040A-APPLICATION-PK	SW,Application PK,2040A	J
SW-2040-SERVER-PK-P	SW,Server PK,2040	J
SW-2040A-SERVER-PK-P	SW,Server PK,2040A	J
SW-2040-WIN-BNDL-C	Windows Bundle,SW,NetApp Select,2040,-C	J
SW-2040A-WIN-BNDL-C	Windows Bundle,SW,NetApp Select,2040A,-C	J
SW-2040-VRTL-BNDL-C	Srvr VrtlBndl,NetApp Select,2040,-C	J
SW-2040A-VRTL-BNDL-C	Srvr VrtlBndl,NetApp Select,2040A,-C	J
SW-2040-COMP-BNDL-C	SW,Complete Bndl,NetApp Select,2040,-C	J
SW-2040A-COMP-BNDL-C	SW,Complete Bndl,NetApp Select,2040A	J

SW-2040-WIN-BNDL	Windows Bundle,SW,NetApp Select,2040	J
SW-2040A-WIN-BNDL	Windows Bundle,SW,NetApp Select,2040A	J
SW-2040-VRTL-BNDL	Srvr VrtlBndl,NetApp Select,2040	J
SW-2040A-VRTL-BNDL	Srvr VrtlBndl,NetApp Select,2040A	J
SW-2040-COMP-BNDL	SW,Complete Bndl,NetApp Select,2040	J
SW-2040A-COMP-BNDL	SW,Complete Bndl,NetApp Select,2040A	J
SW-2040-DFM-OPSMGR-AD	Software,Operations Mgr,Additive 2040 node	J
SW-2040-DFM-PRTMGR-AD	Software,Protection Mgr,Additive 2040 node	J
SW-2040-DFM-PRTMGR-DR-AD	Software,Prot Mgr Disaster Recov, 2040 node	J
SW-2040-DFM-PROVMGR-AD	Software,Provisioning Mgr,Additive 2040 node	J
SW-2040A-DFM-OPSMGR-AD	Software,Operations Mgr,Additive 2040A node	J
SW-2040A-DFM-PRTMGR-AD	Software,Protection Mgr,Additive 2040A node	J
SW-2040A-DFM-PRTMGR-DR-AD	Software,Prot Mgr Disaster Recov,2040A node	J
SW-2040A-DFM-PROVMGR-AD	Software,Provisioning Mgr,Additive 2040A node	J
SW-SSP-2040-OPSMGR-AD	SW Subs,Operations Manager,2040	J
SW-SSP-2040-PROTMGR-AD	SW Subs,Protection Manager,2040	J
SW-SSP-2040-PROVMGR-AD	SW Subs,Provisioning Manager,2040	J
SW-SSP-2040A-OPSMGR-AD	SW Subs,Operations Manager,2040A	J
SW-SSP-2040A-PROTMGR-AD	SW Subs,Protection Manager,2040A	J
SW-SSP-2040A-PROVMGR-AD	SW Subs,Provisioning Manager,2040A	J
FAS2040A-UG-BASE-R5-C	FAS2040-2040A Upgrade Head,-C, R5	A
SW-2040-CLUSTERB-C	CFO Software, 2040, B, -C	J
FAS2040-BASE-R5-S-C	FAS2040 System Controller, -C, R5 Std Upgrades	A

FAS2050

FAS2050A-20X1000-BASE-R5	FAS2050A,20x1TB,Base,R5	B
FAS2050A-20X300-BASE-R5	FAS2050A,20x300GB,Base,R5	B
FAS2050A-20X450-BASE-R5	FAS2050A,20x450GB,Base,R5	B
SW-BASE-PK-P	SW,BASE Pack,-P	J
FAS2050A-HA-SW-R5	FAS2050A,HA CFO Software,R5	J
SW-T2C-FOUNDATION-PACK-P	SW,Foundation Pack,T2C,-P	J
SW-T2-FOUNDATION-PACK-P	SW,Foundation Pack,T2,-P	J
SW-T2-PROTECTION-PACK-P	SW,Protection Pack,T2,-P	J
SW-T2C-PROTECTION-PACK-P	SW,Protection Pack,T2C,-P	J
SW-T2-ADVANCED-PACK-P	SW,Advanced Pack,T2,-P	J
SW-T2C-ADVANCED-PACK-P	SW,Advanced Pack,T2C,-P	J
SW-T2-APPLICATION-PACK-P	SW,Application Pack,T2,-P	J
SW-T2C-APPLICATION-PACK-P	SW,Application Pack,T2C,-P	J
SW-T2-SERVER-PACK-P	SW,Server Pack,T2,-P	J
SW-T2C-SERVER-PACK-P	SW,Server Pack,T2C,-P	J
SW-T2-WIN-BNDL-P	SW,Win Bndl,SW,NetApp Select,T2,-P	J
SW-T2C-WIN-BNDL-P	SW,Win Bndl,SW,NetApp Select,T2C,-P	J
SW-T2-VRTL-BNDL-P	Srvr VrtlBndl,NetApp Select,T2,-P	J
SW-T2C-VRTL-BNDL-P	Srvr VrtlBndl,NetApp Select,T2C,-P	J
SW-T2-COMP-BNDL-P	SW,Complete Bndl,NetApp Select,T2,-P	J
SW-T2C-COMP-BNDL-P	SW,Complete Bndl,NetApp Select,T2C,-P	J

The following table lists the Field Replaceable Units (FRU) part numbers as of the date of this product bulletin.

Part Number	Description	Discount Category Code
FAS2020		
X1848A-R5	Battery,NVMEM,2 Cell,R5	A

X3199A-R6	DIMM(2),512MB,ECC,Sys Memory,FAS2020,R6	A
X3249A-R5	FAS2020,Motherboard with MEM,R5	A
X509A-R6	PCM Filler Blank,FAS2020/2040,R6	A
X513A-R5	PSU W/Fans,675W,AC,FAS2020/2040,R5	A
X5518A-R6	Rack Mount Kit,FAS2020/2040,R6	A
X565A-R5	Chassis Assy,W/O PSU,FAS2020/2040,R5	A
X80061A-R6	Bezel,FAS2020/2040,R6	A
X1413A-R6	Compact Flash,256MB,Blank,R6	A
FAS2040		
X1845A-R6	Battery,Li-ION,2-Cell,7.2V,R5	A
X3203A-R6	DIMM,2GB,ECC,Sys Memory,FAS2040,R6	A
X8605-R6	Cable Management Bracket,FAS2040,R6	A
X3244A-R5	FAS2040 Motherboard with MEM,R5	A
FAS2050		
X3198A-R6	DIMM(2),1GB,ECC,Sys Memory,FAS2050,R6	A
X1849A-R5	Battery,NVMEM,4 Cell,R5	A
X3248A-R5	FAS2050,Motherboard,with MEM,R5	A
X507A-R6	PCM Filler Blank,FAS2050,R6	A
X515A-R5	PSU W/Fans,855W,AC,FAS20x0,R5	A
X5519A-R6	Rack mount kit,FAS2050	A
X5000A-R5	Storage Shelf,4U,24 Drive,Empty,R5	A
X508A-R6	STRG,CARR,SUBASSY,BLANK,DS24,R6	A
X80060A-R6	Bezel,FAS2050/V2050,R6	A
Drives		
X286A-R5	DSK DRV,144 GB,15K RPM,3Gb,SAS,R5	B
X287A-R5	DSK DRV,300 GB,15K RPM,3Gb,SAS,R5	B
X289A-R5	DSK DRV,450GB,15K RPM,3Gb,SAS,R5	B
X290A-R5	DSK DRV,600 GB,15K RPM,3Gb,SAS,R5	B
X282B-R5	DSK DRV,500GB,7.2K RPM,SATA,B,R5	B
X283B-R5	DSK DRV,750GB,7.2K RPM,SATA,B,R5	B
X298A-R5	DSK DRV,1.0TB,7.2K RPM,SATA,R5	B
X299A-R5	DSK DRV,2.0TB,7.2K RPM,3Gb,SATA,R5	B

Downloading

To download software, go to [NetApp Support \(NOW\) Download Software](#).

Product Availability

FAS2020 and FAS2050 systems are shipping in volume NetApp Support (NOW). FAS2040 is scheduled to be production released for shipment in the September 2009 Quote Tool release.

6. Regulatory Compliance

Products need to be validated against the NetApp Safety/EMI Regulatory Compliance List prior to order submission. This is required to ensure that products are being sold only in the countries in which NetApp has received regulatory compliance certification. This information can be found in the Field Portal by searching under "Compliance, Policies and Procedures" or following these links:

- [RoHS Compliance](#)
- [Safety/EMI Regulatory Compliance \(XLS\)](#)
- [WEEE Compliance](#)

7. Warranty and Service

Standard FAS warranty and services apply. Refer to the [NetApp Support \(NOW\)](#) site for details.

8. Additional Information

Contact Information: Please contact your NetApp sales or channel partner representative with questions concerning this bulletin.

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