

OPTION & FIRMWARE VERSION SECTION

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NOTICE: Unless otherwise stated, “firmware version” in this section indicates DKCMAIN firmware.

1. Relationship between Option and Firmware Version

When mounting the following options, update the firmware version to the version that supports the corresponding options in advance.

Refer to FIRMWARE SECTION “[3. Update Firmware](#)” for the firmware version update.

Note that the corresponding control function is indispensable.

NOTICE: If unsupported drives are mounted, critical failure can occur. Check that the drives are supported by which Storage System model and firmware version, and mount the drives on the Storage System with firmware supporting them.

Table 1-1 Correspondence Table of Hardware Options and Firmware Versions

Name	Model name	Name and description	Model (○ : Supported, N/A: Unsupported)			
			VSP G200	VSP G400	VSP G600	VSP G800
4U Controller	DW800-CBL	VSP G400, G600, G800 model RAID Controller Chassis	N/A	○	○	○
2U Controller	DW800-CBSS	VSP G200 model RAID 2.5” Controller Chassis	○	N/A	N/A	N/A
	DW800-CBSSD	VSP G200 model RAID 2.5” Controller Chassis (DC)	○ (*2)	N/A	N/A	N/A
	DW800-CBSL	VSP G200 model RAID 3.5” Controller Chassis	○	N/A	N/A	N/A
	DW800-CBSLD	VSP G200 model RAID 3.5” Controller Chassis (DC)	○ (*2)	N/A	N/A	N/A
Controller	DW-F800-CTLH	VSP G800 Controller	N/A	N/A	N/A	○
	DW-F800-CTLM	VSP G400, G600 Controller	N/A	○	○	N/A
	DW-F800-CTLS	VSP G200 Controller	○	N/A	N/A	N/A
	DW-F800-CTLSE	VSP G200 Controller (Encryption)	○ (*4)	N/A	N/A	N/A

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Name	Model name	Name and description	Model (○ : Supported, N/A: Unsupported)			
			VSP G200	VSP G400	VSP G600	VSP G800
Drive Box	DW-F800-DBS (*1)	Drive Boxes	○	○	○	○
	DW-F800-DBSC					
	DW-F800-DBSD		○ (*2)	N/A	N/A	N/A
	DW-F800-DBL (*1)		○	○	○	○
	DW-F800-DBLC					
	DW-F800-DBLD		○ (*2)	N/A	N/A	N/A
	DW-F800-DB60 (*1)		○	○	○	○
	DW-F800-DB60C					
	DW-F800-DBF		○	○	○	○
Channel Board Box	DW-F800-CHBB	Channel Board Box	N/A	N/A	N/A	○ (*3)
Connection cables	DW-F800-SCQ1	SAS cables	○	○	○	○
	DW-F800-SCQ1F		○	○	○	○
	DW-F800-SCQ3		○	○	○	○
	DW-F800-SCQ5		○	○	○	○
	DW-F800-SCQ10A	Optical cables	○	○	○	○
	DW-F800-SCQ30A		○	○	○	○
	DW-F800-SCQ1HA		○	○	○	○
Backup	DW-F800-BM10	Cache Flash Memory for backup	○	N/A	N/A	N/A
	DW-F800-BM20		N/A	○	○	N/A
	DW-F800-BM30		N/A	○	○	○
	DW-F800-BAT	Battery	○	○	○	○
Rack (*5)/ PDU/others	A-6516-RKU	Rack frame	○	○	○	○
	DW-F800-RRCB	Rack rail	○	○	○	○
	DW-F800-RRDB		○	○	○	○
	A-F6516-STBL	Stabilizer	○	○	○	○
	DW-F800-J4DC	PS cable	○	○	○	○
	DW-F800-J4DC3		○	○	○	○
	DW-F800-J4DC		○ (*2)	N/A	N/A	N/A
	DW-F800-J4DC3		○ (*2)	N/A	N/A	N/A
PCIe cable	DW-F800-PC1F	PCIe cable	N/A	N/A	N/A	○ (*3)

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Name	Model name	Name and description	Model (○ : Supported, N/A: Unsupported)			
			VSP G200	VSP G400	VSP G600	VSP G800
Channel option	DW-F800-4HF8	FC 8 Gbps Channel Board	○	○	○	○
	DW-F800-2HF16	FC 16 Gbps Channel Board	○	○	○	○
	DW-F800-4HF32R	FC 32 Gbps Channel Board	○ (*8)	○ (*8)	○ (*8)	○ (*8)
	DW-F800-2HS10S	iSCSI 10 Gbps Optic Channel Board	○	○	○	○
	DW-F800-2HS10B	iSCSI 10 Gbps Copper Channel Board	○ (*2)	○ (*2)	○ (*2)	○ (*2)
	DW-F800-NAS	NAS Module	N/A	○ (*6)	○ (*6)	○ (*6)
	DKC-F810I-1PL8	Small Form-Factor Pluggable for 8 Gbps Longwave	○	○	○	○
	DKC-F810I-1PS8	Small Form-Factor Pluggable for 8 Gbps Shortwave	○	○	○	○
	DKC-F810I-1PL16	Small Form-Factor Pluggable for 16 Gbps Longwave	○	○	○	○
	DKC-F810I-1PS16	Small Form-Factor Pluggable for 16 Gbps Shortwave	○	○	○	○
	DKC-F810I-1PS32	Small Form-Factor Pluggable for 32 Gbps Shortwave	○ (*10)	○ (*10)	○ (*10)	○ (*10)
	DW-F800-1PS10	Small Form-Factor Pluggable for 10 Gbps Shortwave	N/A	○ (*6)	○ (*6)	○ (*6)
	DW-F800-1HP8	PCIe Channel Board	N/A	N/A	N/A	○ (*3)
Cache option	DKC-F810I-CM8G	Cache memory (8 GB)	○	○	○	○
	DKC-F810I-CM16G	Cache memory (16 GB)	○	○	○	○
	DKC-F810I-CM32G	Cache memory (32 GB)	N/A	N/A	N/A	○
Disk Board	DW-F800-BS12G	Disk Boards	N/A	○	○	○
	DW-F800-BS12GE	Encryption Disk Boards	N/A	○	○	○

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Name	Model name	Name and description	Model (○ : Supported, N/A: Unsupported)			
			VSP G200	VSP G400	VSP G600	VSP G800
2.5" SAS-HDD	DKC-F810I-300KCM (*1)	SFF SAS Disk Drive	○	○	○	○
	DKC-F810I-300KCMC		○	○	○	○
	DKC-F810I-600JCM (*1)		○	○	○	○
	DKC-F810I-600JCMC		○	○	○	○
	DKC-F810I-600KGM		○	○	○	○
	DKC-F810I-1R2JCM (*1)		○	○	○	○
	DKC-F810I-1R2JCMC		○	○	○	○
3.5" NLSAS-HDD	DKC-F810I-1R8JGM	LFF SAS Disk Drive	○ (*2)	○ (*2)	○ (*2)	○ (*2)
	DKC-F810I-1R2J5M (*1)		○	○	○	○
	DKC-F810I-1R2J5MC		○	○	○	○
	DKC-F810I-1R2J7M (*1)		○	○	○	○
	DKC-F810I-1R2J7MC		○	○	○	○
	DKC-F810I-4R0H3M (*1)		○	○	○	○
	DKC-F810I-4R0H3MC		○	○	○	○
	DKC-F810I-4R0H4M (*1)		○	○	○	○
	DKC-F810I-4R0H4MC		○	○	○	○
	DKC-F810I-6R0H9M		○	○	○	○
	DKC-F810I-6R0HLM		○	○	○	○
	DKC-F810I-1R8J6M		○ (*2)	○ (*2)	○ (*2)	○ (*2)
	DKC-F810I-1R8J8M		○ (*2)	○ (*2)	○ (*2)	○ (*2)
	DKC-F810I-10RH9M		○ (*9)	○ (*9)	○ (*9)	○ (*9)
	DKC-F810I-10RHLM		○ (*9)	○ (*9)	○ (*9)	○ (*9)
Flash Drive	DKC-F810I-400M8M	MLC 12 Flash Drive	○	○	○	○
	DKC-F810I-400M6M		○	○	○	○
	DKC-F810I-400MEM		○	○	○	○
	DKC-F810I-200MEM		○	○	○	○
	DKC-F810I-1R9MEM		○ (*7)	○ (*7)	○ (*7)	○ (*7)
	DKC-F810I-1R9MGM		○ (*11)	○ (*11)	○ (*11)	○ (*11)
	DKC-F810I-480MGM		○ (*12)	○ (*12)	○ (*12)	N/A
	DKC-F810I-960MGM		○ (*12)	○ (*12)	○ (*12)	○ (*12)
	DKC-F810I-3R8MGM		○ (*12)	○ (*12)	○ (*12)	○ (*12)
Flash Module Drive	DKC-F710I-1R6FM	1.75 TB (1.6 TiB) Flash Module Drive	○	○	○	○
	DKC-F810I-1R6FN		○ (*3)	○ (*3)	○ (*3)	○ (*3)
	DKC-F710I-3R2FM		○	○	○	○
	DKC-F810I-3R2FN		○ (*3)	○ (*3)	○ (*3)	○ (*3)
	DKC-F810I-6R4FN		○ (*3)	○ (*3)	○ (*3)	○ (*3)
	DKC-F810I-7R0FP		○ (*9)	○ (*9)	○ (*9)	○ (*9)
	DKC-F810I-14RFP		○ (*9)	○ (*9)	○ (*9)	○ (*9)

*1: Contains BNST

*2: The firmware version of 83-01-21-x0/xx or more is supported.

*3: The firmware version of 83-02-01-x0/xx or more is supported.

*4: The firmware version of 83-03-01-x0/xx or more is supported.

*5: For information about the Hitachi Universal V2 rack used with HDS VSP Storage Systems, see the Hitachi Universal V2 Rack Reference Guide (MK-94HM8035).

*6: The firmware version of 83-03-21-x0/xx or more is supported.

*7: The firmware version of 83-03-22-x0/xx or more is supported.

*8: The firmware version of 83-04-01-x0/xx or more is supported.
Install CHB (FC32G) firmware before adding this option.

*9: The firmware version of 83-04-01-x0/xx or more is supported.

*10: The firmware version of 83-04-02-x0/xx or more is supported.

*11: The firmware version of 83-04-21-x0/xx or more is supported.

*12: The firmware version of 83-04-41-x0/xx or more is supported.

Table 1-2 Correspondence Table of Program Product and Firmware Versions (VSP Gx00 Model)

License Name	Description	Model (○ : Supported, N/A: Unsupported)			
		VSP G200	VSP G400	VSP G600	VSP G800
Hitachi Storage Virtualization Operating System (SVOS)	This is a program product to perform the resource management of VSP Gx00. It provides the basic settings of the Storage System and the basic functions necessary for the operation.	○	○	○	○
Hitachi Remote Replication	This is a program product to provide the TrueCopy function and Universal Replicator function which back up the data to another Storage System by the remote copy.	○	○	○	○
Hitachi Local Replication	This is a program product to provide the ShadowImage function and Thin Image function which create the replication of the data in the Storage System and back up it.	○	○	○	○
Hitachi Data Mobility	This is a program product which tiers the virtual volumes in the Storage System and manages and controls them.	○	○	○	○
Hitachi Encryption Key	This is a program product to provide the function which encrypts the data stored in the volume in the Storage System.	○ (*2)	○	○	○
Hitachi Remote Replication Extended (*5)	This is a program product to provide the Universal Replicator function which guarantees the consistency of the data backed up among multiple Storage Systems.	○ (*2)	○ (*2)	○ (*2)	○ (*1)
Hitachi Volume Migration	This is a program product to migrate the data from the old model using the virtualization function (Universal Volume Manager function) of the externally connected Storage System. It has the use restriction of 180 days.	○	○	○	○

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License Name	Description	Model (○ : Supported, N/A: Unsupported)			
		VSP G200	VSP G400	VSP G600	VSP G800
Hitachi Performance Analytics	This is a program product to manage the operation of the Storage System.	○	○	○	○
active flash	This is a program product to control volume tiers in real time.	○ (*3)	○ (*3)	○ (*3)	○ (*3)
Hitachi Model upgrade license	This is a program product to update the model from VSP G400 to G600.	N/A	○	N/A	N/A
global-active device	This is a program product to create a pair of volumes by two Storage Systems and retain the same data. Both volumes of the GAD pair can be used for I/O from the server.	○ (*1)	○ (*1)	○ (*1)	○ (*1)
nondisruptive migration	This is a program product to migrate the data for replacing the Storage System.	○ (*2)	○ (*2)	○ (*2)	○ (*2)
dedupe and compression	This is a program product to provide the compression and deduplication functions.	○ (*6)	○ (*6)	○ (*6)	○ (*6)
Hitachi NAS Storage Virtualization Operating System	This is a program product to manage the resources of VSP Gx00 file data and block data. It provides basic settings of the Storage System and basic functions to be required for the operation.	N/A	○ (*4)	○ (*4)	○ (*4)
Hitachi NAS Remote Replication	This is a program product to provide copying to a remote site using Remote Replication or File System Rollback	N/A	○ (*4)	○ (*4)	○ (*4)
Hitachi NAS Local Replication	This is a program product to create an internal data replica and snapshot using ShadowImage, Thin Image, File System Recover from Snapshot or File Clone.	N/A	○ (*4)	○ (*4)	○ (*4)
Hitachi NAS Data Mobility	This is a program product to provide migration of old data in the file system to another file system in Gx00 or to the external NFS server.	N/A	○ (*4)	○ (*4)	○ (*4)

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License Name	Description	Model (○ : Supported, N/A: Unsupported)			
		VSP G200	VSP G400	VSP G600	VSP G800
Hitachi NAS Enterprise Virtual Server	This is a program product to provide the function to add up to 64 Enterprise Virtual Servers (EVS) to VSP Gx00 and to set a link with an independent external server for each EVS.	N/A	○ (*4)	○ (*4)	○ (*4)
Hitachi NAS Premium Deduplication	This is a program product to provide the function to improve the processing performance of the deduplication function.	N/A	○ (*4)	○ (*4)	○ (*4)

*1: The firmware version of 83-01-21-x0/xx or more is supported.

*2: The firmware version of 83-03-01-x0/xx or more is supported.

*3: The firmware version of 83-02-01-x0/xx or more is supported.

*4: The firmware version of 83-03-21-x0/xx or more is supported.

*5: The name of “Hitachi Disaster Recovery Extended” is applied when the firmware version is less than 83-03-21-x0/xx.

*6: The firmware version of 83-04-01-x0/xx or more is supported.

Table 1-3 Correspondence Table of Program Product and Firmware Versions (VSP Fx00 Model)

License Name	Description	Model (○ : Supported, N/A: Unsupported)			
		-	VSP F400	VSP F600	VSP F800
Hitachi Storage Virtualization Operating System (SVOS)	This is a program product to perform the resource management of VSP Gx00. It provides the basic settings of the Storage System and the basic functions necessary for the operation.	-	○ (*1)	○ (*1)	○ (*1)
Hitachi Remote Replication	This is a program product to provide the TrueCopy function and Universal Replicator function which back up the data to another Storage System by the remote copy.	-	○ (*1)	○ (*1)	○ (*1)
Hitachi Encryption Key	This is a program product to provide the function which encrypts the data stored in the volume in the Storage System.	-	○ (*1)	○ (*1)	○ (*1)
Hitachi Remote Replication Extended (*2)	This is a program product to provide the Universal Replicator function which guarantees the consistency of the data backed up among multiple Storage Systems.	-	○ (*1)	○ (*1)	○ (*1)
Hitachi Performance Analytics	This is a program product to manage the Storage System operation.	-	○ (*1)	○ (*1)	○ (*1)
Hitachi Volume Migration	This is a program product to migrate data from an old model. This is a license with usage restrictions of 180 days.	-	○ (*1)	○ (*1)	○ (*1)
dedupe and compression	This is a program product to provide the compression and deduplication functions.	-	○ (*3)	○ (*3)	○ (*3)
global-active device	This is a program product to create a pair of volumes by two Storage Systems and retain the same data. Both volumes of the GAD pair can be used for I/O from the server.	-	○ (*4)	○ (*4)	○ (*4)

*1: The firmware version of 83-03-01-x0/xx or more is supported.

*2: The name of "Hitachi Disaster Recovery Extended" is applied when the firmware version is less than 83-03-21-x0/xx.

*3: The firmware version of 83-04-01-x0/xx or more is supported.

*4: The firmware version of 83-04-20-x0/xx or more is supported.