

# StorageWorks by Compaq

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Release Notes – DS-KGPSA-CB and FCA2101 Host Bus Adapters for Windows 2000 and Windows NT

Part Number: AA-RQ6XB-TE

**Second Edition (June 2002)**

These release notes contain late-breaking and supplemental information for the *StorageWorks*™ DS-KGPSA-CB 64-bit PCI to Fibre Channel Host Bus Adapter by Compaq, and the *StorageWorks*™ FCA2101 Host Bus Adapter by Compaq for Windows 2000 and Windows NT. For the latest version of these Release Notes and other Host Bus Adapter documentation, visit the Compaq storage website at: <http://www.compaq.com/products/storageworks/adapters.html>

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Printed in the U.S.A.

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## Release Notes Contents

These release notes contain information for the:

- DS-KGPSA-CB, 64-bit PCI to Fibre Channel Host Bus Adapter (HBA)
- FCA2101 HBA

These HBAs are high-performance PCI option modules that connect to devices attached through either a hub-based optical Fibre Channel arbitrated loop or a switch based optical Fibre Channel fabric. These HBAs support only short wave multi-mode connections. These release notes include all known issues or restrictions for using the HBAs within a system configuration. These release notes cover the following major topics:

- Supported Systems
- Supported Storage and Interconnecting Devices
- Supported Configurations
- Configuration Information
- Restrictions

## Supported Systems

The HBAs are supported on the Proliant server platforms that have passed Windows 2000, SP2, and Windows NT SP 6 compatibility testing with the HBA as of the date on these release notes.

For other supported servers, refer to the storage website at:  
<http://www.compaq.com/storage>

See the Restrictions section in these release notes for known device restrictions.

## Supported Storage and Interconnecting Devices

Table 1 describes the associated components and their revisions that are qualified with the HBA.

**Table 1: Supported Storage and Interconnect Devices**

Component	Firmware/Driver Versions	Part Number
FCA2101 HBA 245299-B21	rcb382a1-160a5.awc	Resides on HBA
64-bit PCI to Fibre Channel HBA DS-KGPSA-CB	ddb382a1-160a5.awc	Resides on the HBA
Windows 2000 Driver	driver 5-4.81a9 or later	265810-001
Windows NT Driver	driver 4-4.81a9 or later	265809-001
<i>StorageWorks</i> 1 GB FC Switches	1.6D	
8 Port		DS-DSGGA-AA 380591-B21
16 Port		DS-DSGGA-AB 380578-B21
<i>StorageWorks</i> 1 GB SAN Switches	2.6.0C	
8 Port		DS-DSGGB-AA 158223-B21
16 Port		DS-DSGGB-AB 158224-B21
<i>StorageWorks</i> 1 GB SAN Switches	2.6.0C	
8-EL		DS-DSGGC-AA 176219-B21
16-EL		DS-DSGGC-AB 212776-B21
<i>StorageWorks</i> 2 GB SAN Switches	3.0.2C	
16 Port with one power supply		DS-DSGGD-AA 240602-B21
16 Port with two power supplies		DS-DSGGD-BA 287055-B21

**Table 1: Supported Storage and Interconnect Devices (Continued)**

Component	Firmware/Driver Versions	Part Number
<i>StorageWorks</i> 2 GB SAN Switches	3.0.2C	
8-EL		DS-DSGGD-AC 258707-B21
16-EL		DS-DSGGD-AD 283056-B21
2 GB SAN Director 64 Switch	2.0.00 build 22	DS-DMGGD-AA 254512-B21
MSA Fabric Switch 6	101G05 or later	218960-B21
2Gb/s SFP SW Transceiver Kit	N/A	221470-B21
Fibre Channel Storage Hub-7	N/A	DS-SWXHB-X7 234453-001
Optical Cables (connection from HBA to Hub or Switch)	N/A	LC-LC Multi-Mode Fibre Channel Cable 221692-B21 - 2m 221692-B22 - 5m 221692-B23 - 12m
Optical Cables (connection from HBA to Hub or Switch)	N/A	SC-LC Multi-Mode Fibre Channel Cable 221692-B21- 2m 221692-B22 - 5m 221692-B23 - 12m

## Supported Product Configurations

The HBAs supports the following product configurations:

**Table 2: Supported Product Configurations**

Product	Secure Path Product Versions
ACS V8.7 for HSG 80	Windows V4.0
Enterprise Virtual Array V2.0	Windows V4.0

## Configuration Information

- Supports both the KGPSA-CB (76479-B21) and the FCA2101 (245299-B21) on the same host
- Maximum number of cascaded (serial) switches is 3
- Maximum number of hops is 7
- Maximum cable length between switches is 500m for SWL, 10K for LWL, and 100K for VLD
- Supports a mix of SAN switches in the same configuration

## Restrictions

The remainder of this document contains the restrictions for the HBA.

### Host Bus Adapter Restrictions

The HBA restrictions include:

- The minimum Revision of Windows 2000 SP2 driver code is 5-4.81a9
- The minimum Revision of Windows NT 4.0 SP6 driver code is 4-4.81a9
- The minimum Revision of HBA firmware for is 3.82a1-160a5.

### Windows 2000 and Windows NT Restrictions

The HBA is not supported on Alpha platforms running Windows 2000 and Windows NT 4.0 platforms.

### Registry Settings

[Table 3](#) contains the Windows NT 4.0 and Windows 2000 registry settings, from the OEMSetup.ini file that is shipped with the HBA kit.

Additional registry settings are required as a function of the configuration in which the HBA is installed. The additional registry parameter settings are automatically added when the Software Solution kit is installed and also when your specific application, such as Secure Path or Enterprise, is installed. Consult your Software Solution kit for this information.

**Table 3: Registry Parameters**

Parameter	Setting	Comments
EnableDPC	1	
ElsRetryCount	6	
NodeTimeout	60	Standard for transparent failover mode
ScanDown	1	Valid for Arbitrated Loop Configurations
Simulate Device	1	
Topology	2	Default value for Arbitrated Loop Configurations
Emulex Option	Windows NT: 0x2200 Windows 2000: 0x3A00	
ErrRetryMax	0	
CrfIntrpt	1	
CrfMsCnt	1	
CrfRspCnt	8	
Number of Requests	Dec. Value = 50	
Maximum SG List	Dec. Value = 33	
RetryIOtimeOut	1	
RetryInterval	52	
QueueTarget	1	