

hp StorageWorks

fca2355 dual channel PCI host bus adapter

release notes

Part Number: AV-RTJXA-TE

First Edition (November 2002)

These release notes contain late-breaking and supplemental information for the HP StorageWorks FCA2355 dual channel PCI host bus adapter.



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First Edition (November 2002)
Part Number: AV-RTJXA-TE

Release Notes Contents

These release notes contain information for the FCA2355 dual channel PCI host bus adapter.

This HBA is a high-performance PCI option modules that connects to devices attached through either a hub-based optical Fibre Channel arbitrated loop or a switch based optical Fibre Channel fabric. This HBA supports 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 Product Configurations](#)
- [Configuration Information](#)
- [Restrictions](#)

Supported Systems

The FCA2355 is supported on HP Proliant server platforms that:

- Meet the voltage and minimum PCI slot requirements listed in [Table 1](#).
- Passed Windows 2000, SP3, and Windows NT SP 6a compatibility testing with the HBA as of the date on these release notes.

For other supported servers, refer to the storage website at:

<http://thenew.hp.com/country/us/eng/prodserv/storage.html>

See the [Restrictions](#) section in these release notes for known device restrictions.

Table 1 describes the voltage and minimum PCI slot requirements for the FCA2355 and previously released HP HBAs for Windows platforms.

NOTE: Refer to your HP Proliant server PCI slot specifications to determine whether your server and the HBA are compatible.

Table 1: Voltage and Minimum HBA PCI Slot Requirements

HBA Part Number	HBA Voltage Requirement	HBA PCI Signaling Voltage	PCI Slot Type
FCA2355 308540-B21	3.3 VDC	3.3 volt, 5 volt Tolerant	Universal PCI connector
FCA2101 245299-B21	3.3 VDC	3.3 volt, 5 volt Tolerant	Universal PCI connector
DS-KGPSA-CB 176479-B21	5 VDC	3.3 volt, 5 volt Tolerant	5 volt only universal PCI connector

Supported Storage and Interconnecting Devices

Table 2 describes the associated components and their revisions that are qualified with the HBA.

Table 2: Supported Storage and Interconnect Devices

Component	Firmware/Driver Versions	Part Number
FCA2355 HBA 308540-B21	cdb3.82a1-1.61a2	Resides on the HBA
Windows 2000 Driver	driver 5-4.82a9	N/A
Windows NT Driver	driver 4-4.82a9	N/A
<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- 158224-B21

Table 2: Supported Storage and Interconnect Devices (Continued)

Component	Firmware/Driver Versions	Part Number
<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
<i>StorageWorks</i> 2 GB SAN Switches	3.0.2C	
8-EL		DS-DSGGD-AC 258707-B21
16-EL		DS-DSGGD-AD 283056-B21
SAN Director 64 Switch	1.04.00 Build 2	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 - 15m
Optical Cables (connection from HBA to Hub or Switch)	N/A	SC-LC Multi-Mode Fibre Channel Cable 221691-B21 - 2m 221691-B22 - 5m 221691-B23 - 15m

Supported Product Configurations

Table 3 lists the product configurations supported by these HBAs.

Table 3: Supported Product Configurations

Product	Secure Path Product Versions
Array Controller Software (ACS) V8.6 and V8.7 for HSG 80	Windows V3.1A, SP1
Enterprise Virtual Array V2.0	Windows V4.0
MSA1000 V.1	Windows V3.1B Windows Workgroup Edition V3.1B

Configuration Information

- Supports the KGPSA-CB (176479-B21), the FCA2101 (245299-B21), and the FCA2355 (308540-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 SP3 driver code is 5-4.82a9
- The minimum Revision of Windows NT 4.0 SP6 driver code is 4-4.82a9
- The minimum revision of HBA firmware for is cdb3.82a1-161a2.

Windows 2000 and Windows NT Restrictions

Operating system restrictions include:

- The HBA is not supported on Alpha platforms running Windows 2000 and Windows NT 4.0 platforms.
- The HBA supports boot functionality as specified in the application notes located on the MSA1000 Configuration Support CD-ROM.

Registry Settings

Table 4 lists 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 kits are installed and also when your specific application, such as Secure Path or Enterprise Backup Solution (EBS), is installed. Consult your Software Solution kit for this information.

Table 4: 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	FC-AL first, then attempt PT-PT
Emulex Option	0xAA00	
ErrRetryMax	0	
CrfIntrpt	1	
CrfMsCnt	1	
CrfRspCnt	8	
Number of Requests	Dec. Value = 50	
Maximum SG List	Dec. Value = 33	
Reset_TPRLO	1	

