

# HP StorageWorks

## FCA2214/FCA2214DC PCI-X host bus adapters for Linux, NetWare, and Windows release notes

This document contains supplemental information for the FCA2214/FCA2214DC PCI-X host bus adapters for Linux, Novell NetWare, and Microsoft Windows.

For the latest version of these release notes and other host bus adapter documentation, access the HP storage web site at <http://h18006.www1.hp.com/storage/saninfrastructure.html>.

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FCA2214/FCA2214DC PCI-X host bus adapters for Linux, NetWare, and Windows release notes

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# About this document

This section describes the content reflected in this document, including:

- [Release notes information](#), page 3
- [Intended audience](#), page 3

## Release notes information

These release notes contain information for the FCA2214 and FCA2214DC host bus adapters (HBAs) for Linux®, NetWare®, and Windows®.

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**NOTE:** The FCA2214DC HBA is not supported with NetWare.

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These HBAs are 2 Gb high-performance PCI-X option HBAs that connect to devices attached through a switch-based optical Fibre Channel fabric. These HBAs support only short wave multi-mode connections. They are backwards compatible to PCI.

These release notes contain the following major topics:

- [Supported systems and requirements](#), page 4
- [Supported firmware and BIOS versions](#), page 5
- [Configuration information](#), page 5
- [Restrictions](#), page 7

## Intended audience

This document is intended for customers who purchased the FCA2214/FCA2214DC HBAs running on Linux and Windows operating systems, and the FCA2214 HBA running on NetWare.

Additional documentation, including white papers and best practices documents, are available via the HP web site at: <http://www.hp.com>.

# Supported systems and requirements

These HBAs are supported on HP server platforms as follows:

- Meet the voltage and minimum PCI slot requirements listed in [Table 1](#).
- Linux operating systems:
  - Red Hat EL 3.0
  - Red Hat Advanced Server 2.1
  - SUSE SLES 8/UL-1 SP3
- Netware operating systems—5.1, 6.0, and 6.5
- Support Windows Server 2003 32-bit and Windows 2000 SP4 as of the date on these release notes.

For other supported servers, refer to the storage web site at <http://welcome.hp.com/country/us/en/prodserv/storage.html>.

See “[Restrictions](#)” on page 7 in these release notes for known restrictions.

- Voltage and minimum PCI slot requirements for the HBAs and for Windows operating systems are describes in [Table 1](#).



**NOTE:** Refer to your HP server PCI slot specifications to determine whether your server and These HBAs are compatible.

[Table 1](#) lists the voltage and minimum PCI slot requirements

**Table 1** Voltage and minimum PCI slot requirements

HBA model number	HBA part number	HBA voltage requirement	HBA PCI signaling voltage	PCI slot type
FCA2214	281541-B21	3.3 VDC	3.3 volt, 5 volt Tolerant	Universal PCI connector
FCA2214DC	321835-B21			

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# Supported firmware and BIOS versions

The firmware and BIOS revisions that are qualified with these HBAs at this time are as follows:

- Windows SCSIport miniport - 9.0.0.13
- BIOS—1.34
- Linux driver—7.00.03
- NetWare driver—6.80F

For the latest HBA firmware, please check the HP web site at

<http://welcome.hp.com/country/us/en/support.html>.

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# Configuration information

## Fibre Channel switches

For the latest firmware information for switches, please check the HP web site at <http://welcome.hp.com/country/us/en/support.html>.

Or, refer to the *HP StorageWorks SAN design reference guide*, available at <http://h18006.www1.hp.com/products/storageworks/san/documentation.html>.

## Supporting multiple array types attached to the same HBAs with Windows systems

With the new HP common set of SCSIPort miniport driver parameters that provide basic functionality, a Windows host can now access EVA, MSA, and XP storage arrays simultaneously.

Table 2 lists the supported parameters for configurations in which a Windows host simultaneously accesses different storage array types.

**Table 2** Windows SCSIPort miniport driver parameters

Parameter	HP Default
Executionthrottle	16
RstBus	0  Note that Rstbus=2 may have been inadvertently set. Remove this value from the registry.
EnableRLIPReset	0
EnableLIPFullLogin	1
EnableTargetReset	1
PortDownRetryCount	16
LoginTimeOut	4 then 2 times RATO
LinkDownTimeOut	8
NumberOfRequests	150
MaximumSGList	33
IntMode	Do not use
IntDelay	Do not use
UseSameNN	0
EnableADISC	0

Note the following about the Windows SCSIPort miniport driver parameters:

- The HP default for the QLogic driver string is shown in the following example:

```
UseSameNN=0;
```

- Parameters listed in [Table 2](#) on page 6 may not show up in the Registry if the parameters' value is a driver default.

For more information and definitions on parameters, see the `23xxBiosReadme.txt` in the download of the BIOS.

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## Restrictions

This section describes the restrictions for the HBAs.

### Windows restrictions

- These HBAs are not supported on HP Integrity servers.
- At this time, LUN masking and Persistent Binding at the HBA level is not supported.

### NetWare restrictions

- The FCA2214DC HBA is not supported with NetWare.
- These HBAs are not supported on HP integrity servers.

### Linux restrictions

These HBAs are not supported on HP integrity servers.