



HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

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Overview

This document contains information regarding compatibility and interoperability for a "configuration set" of Storage Area Network (SAN) components. A configuration set is a collection of components that are compatible in a particular context. For example, configuration sets of type "array-os" contain components that are compatible from an array-os perspective. An example of an array-os config set is the "EVA4400 Microsoft Windows Server 2008 IA64" config set. It describes the components that are currently supported for the EVA4400 array in a Windows 2008 IA64 environment.

It is very important that you note the details of the components listed in these tables, as they describe the specific attributes of supported component versions. It is also very important to examine the notes in each section, because they may further limit or clarify supported configurations.

The contents of this document were generated from the SPOCK website, located at: <http://spock.corp.hp.com> (HP Employees) or <http://www.hp.com/storage/spock> (HP Customers and Partners) .

Legal Notice

1. The information contained herein is subject to change without notice.
2. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

General notes about this configuration set

For specific configuration guidelines and coexistence information, refer to the SAN Design Reference Guide at <http://h18000.www1.hp.com/products/storage/san/documentation.html>.

HP has significantly expanded its RHEL support policy, beginning with 3PAR OS 3.1.2. Refer to the RHEL SUPPORT POLICY in the Links section below.

Links

[Solution Software: Application Notes](http://h20272.www2.hp.com/utility/document.aspx?docurl=Shared%20Documents/Solution_Software/All/SolSW_Application_Notes.pdf) -(http://h20272.www2.hp.com/utility/document.aspx?docurl=Shared%20Documents/Solution_Software/All/SolSW_Application_Notes.pdf)

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| Disk Array (12) | | | | | | |
|-----------------------------|--------|--------|------------|---------------|-----------|---|
| Name | Vendor | Family | Controller | Firmware | ProductId | Host Mode |
| HP 3PAR F200 Storage System | HP | 3PAR | | 3PAR OS 3.1.1 | | 1 (Generic) |
| HP 3PAR F200 Storage System | HP | 3PAR | | 3PAR OS 3.1.2 | | 1 (Generic) |
| HP 3PAR F200 Storage System | HP | 3PAR | | 3PAR OS 3.1.3 | | 2 (Generic-ALUA) Recommended, 1 (Generic) |
| HP 3PAR F400 Storage System | HP | 3PAR | | 3PAR OS 3.1.3 | | 2 (Generic-ALUA) Recommended, 1 (Generic) |
| HP 3PAR F400 Storage System | HP | 3PAR | | 3PAR OS 3.1.2 | | 1 (Generic) |
| HP 3PAR F400 Storage System | HP | 3PAR | | 3PAR OS 3.1.1 | | 1 (Generic) |
| HP 3PAR T400 Storage System | HP | 3PAR | | 3PAR OS 3.1.1 | | 1 (Generic) |
| HP 3PAR T400 Storage System | HP | 3PAR | | 3PAR OS 3.1.2 | | 1 (Generic) |
| HP 3PAR T400 Storage System | HP | 3PAR | | 3PAR OS 3.1.3 | | 2 (Generic-ALUA) Recommended, 1 (Generic) |
| HP 3PAR T800 Storage System | HP | 3PAR | | 3PAR OS 3.1.3 | | 2 (Generic-ALUA) Recommended, 1 (Generic) |
| HP 3PAR T800 Storage System | HP | 3PAR | | 3PAR OS 3.1.2 | | 1 (Generic) |
| HP 3PAR T800 Storage System | HP | 3PAR | | 3PAR OS 3.1.1 | | 1 (Generic) |

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| Operating System (20) | | | | | | |
|---------------------------------|--------------------------|------------|--------------|---------|--------------|------------------------|
| Name | OS Family | OS Version | Service Pack | Vendor | Architecture | Minimum Kernel Version |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U2 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U3 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U4 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U5 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U6 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U1 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U7 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U8 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U9 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 IA32 | Red Hat Enterprise Linux | 5 | U10 | Red Hat | IA32 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U10 | Red Hat | x64 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U8 | Red Hat | x64 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U9 | Red Hat | x64 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U7 | Red Hat | x64 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U1 | Red Hat | x64 | 2.6.18-348 |

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| Name | OS Family | OS Version | Service Pack | Vendor | Architecture | Minimum Kernel Version |
|--------------------------------|--------------------------|------------|--------------|---------|--------------|------------------------|
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U6 | Red Hat | x64 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U5 | Red Hat | x64 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U2 | Red Hat | x64 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U3 | Red Hat | x64 | 2.6.18-348 |
| Red Hat Enterprise Linux 5 x64 | Red Hat Enterprise Linux | 5 | U4 | Red Hat | x64 | 2.6.18-348 |

Notes:

General Operating System (20) Notes:

Red Hat support includes Oracle Linux (Oracle Enterprise Linux with RH compatible Kernel

[RHEL SUPPORT POLICY](#)

| Cluster Management-High Availability (12) | | |
|---|----------|------------------|
| Name | Vendor | Software Version |
| HP Serviceguard for Linux | HP | |
| IBM General Parallel File System (GPFS) | IBM | 3.2 |
| IBM General Parallel File System (GPFS) | IBM | 3.3 |
| IBM General Parallel File System (GPFS) | IBM | 3.4 |
| IBM General Parallel File System (GPFS) | IBM | 3.5 |
| Red Hat Cluster Suite | Red Hat | |
| Veritas Cluster Server | Symantec | 6.1 |
| Veritas Cluster Server | Symantec | 6.0 |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Software Version |
|------------------------|----------|------------------|
| Veritas Cluster Server | Symantec | 5.1 SP1 RP2 |
| Veritas Cluster Server | Symantec | 4.1 |
| Veritas Cluster Server | Symantec | 5.0 MP3 R2 |
| Veritas Cluster Server | Symantec | 5.0 MP4 |

Notes:

General Cluster Management-High Availability (12) Notes:

- 1) SG/LX: For support details and exceptions, check the Serviceguard for Linux Certification Matrix available at <http://www.hp.com/go/sglx>
- 2) Red Hat GFS and GFS2 is supported.
- 3) For Veritas VCS - SF5.1GA is not supported, SF5.1SP1RP2 is the minimum required version of SF5.1 for support.
- 4) Symantec/Veritas Storage Foundation (VxDMP/VCS) is only supported in a FC-Fabric attach (FC-switched) configuration

| Server (3) | | |
|---------------------------------------|--------|--------------|
| Name | Vendor | Architecture |
| Link for ProLiant AMD Opteron servers | HP | ProLiant |
| Link for ProLiant x86 servers | HP | ProLiant |
| Link to ProLiant EM64T servers | HP | ProLiant |

Notes:

General Server (3) Notes:

- 1) Link for ProLiant x86 servers Notes: ProLiant Server Information for Linux-(<http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html>)
- 2) Link to ProLiant AMD64 Notes: ProLiant Server Information for Linux-(<http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html>)
- 3) Link to ProLiant EM64T servers Notes: ProLiant Server Information for Linux-(<http://h18004.www1.hp.com/products/servers/linux/hplinuxcert.html>)
- 4) For Virtual Connect support information, refer to the Virtual Connect support streams on SPOCK

Host Bus Adapter (HBA) (216)

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|-------------|--------|------|-------|----------------|------------------|--------|--------------------|--------------------|------|------------|------|--|------------------------|--------------|
| 403619-B 21 | QLogic | PCle | 4Gb | 403619-B 21 | Loaded By Driver | 2.16 | QMH2462 | | 2.22 | 1.96AF | | In Box | Y | Y |
| 403619-B 21 | QLogic | PCle | 4Gb | 403619-B 21 | Loaded By Driver | 3.08 | QMH2462 | | | 1.99AF | | 8.03.07.1 4.5.6-k (OOB) | Y | Y |
| 403619-B 21 | QLogic | PCle | 4Gb | 403619-B 21 | Loaded By Driver | 3.13 | QMH2462 | | | 2.03AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | N | Y |
| 403619-B 21 | QLogic | PCle | 4Gb | 403619-B 21 | Loaded By Driver | 3.13 | QMH2462 | | | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | N | Y |
| 403619-B 21 | QLogic | PCle | 4Gb | 403619-B 21 | Loaded By Driver | 3.13 | QMH2462 | | | 2.03AF | | 8.03.07.1 5.05.10-k | N | Y |
| 403619-B 21 | QLogic | PCle | 4Gb | 403619-B 21 | Loaded By Driver | 3.13 | QMH2462 | | | 2.03AF | | 8.04.00.0 6.5.6-k2 | N | Y |
| 403619-B 21 | QLogic | PCle | 4Gb | 403619-B 21 | Loaded By Driver | 3.13 | QMH2462 | | | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | N | Y |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.11a5 | LPe1105 | | | 6.03a11 | | 8.2.0.136 (OOB) | N | Y |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.11a5 | LPe1105 | | | 6.03a11 | | In Box | N | Y |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | | LPe1105 | | | 6.03a11 | | 8.2.0.134 (OOB); | N | Y |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.20a1 | LPe1105 | | | 6.10a7 | | In Box, 8.2.0.145 (OOB) | N | Y |

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|-------------|---------|------|-------|----------------|------------------|---------|--------------------|--------------------|-----|------------|------|---|------------------------|--------------|
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.20a1 | LPe1105 | | | 6.10a7 | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | N | Y |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.20a1 | LPe1105 | | | 6.10a8 | | 8.2.2.29 | N | Y |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.20a1 | LPe1105 | | | 6.10a8 | | 8.2.0.128.3p | N | Y |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.20a1 | LPe1105 | | | 6.10a8 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | N | N |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.30a1 | LPe1105 | | | 6.10a14 | | 8.2.2.33 | N | Y |
| 403621-B 21 | Emulex | PCle | 4Gb | 403621-B 21 | 2.82x4 | 3.30a1 | LPe1105 | | | 6.10a14 | | In Box, 8.2.0.145 (OOB) | N | Y |
| 41B | Brocade | PCle | 4Gb | AP767A/B | Loaded by Driver | 3.2.1.0 | 415 | | | | | 3.2.1.0 (OOB) RHEL 5.8/5.9 | N | Y |
| 41B | Brocade | PCle | 4Gb | AP767A/B | Loaded by Driver | 3.2.1.0 | 415 | | | | | 3.0.23.0 | N | Y |
| 42B | Brocade | PCle | 4Gb | AP768A/B | Loaded by Driver | 3.2.1.0 | 425 | | | | | 3.2.1.0 (OOB) RHEL 5.8/5.9 | N | Y |
| 42B | Brocade | PCle | 4Gb | AP768A/B | Loaded by Driver | 3.2.1.0 | 425 | | | | | 3.0.23.0 | N | Y |

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|-------------|--------|------|-------|----------------|------------------|--------|--------------------|--------------------|-----|------------|---------|---|------------------------|--------------|
| 451871-B 21 | QLogic | PCle | 8Gb | 451871-B 21 | Loaded By Driver | 3.13 | QMH2562 | | | | 3.60.04 | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | | |
| 451871-B 21 | QLogic | PCle | 8Gb | 451871-B 21 | Loaded By Driver | 3.13 | QMH2562 | | | 2.65.01 | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | N | Y |
| 451871-B 21 | QLogic | PCle | 8Gb | 451871-B 21 | Loaded By Driver | 3.13 | QMH2562 | | | 2.65.01 | | 8.04.00.1 2.5.6-k2 | N | Y |
| 451871-B 21 | QLogic | PCle | 8Gb | 451871-B 21 | Loaded By Driver | 3.13 | QMH2562 | | | 2.65.01 | | 8.03.07.1 5.05.10-k | N | Y |
| 451871-B 21 | QLogic | PCle | 8Gb | 451871-B 21 | Loaded By Driver | 2.16 | QMH2562 | | NA | 2.39AF | | In Box | N | Y |
| 451871-B 21 | QLogic | PCle | 8Gb | 451871-B 21 | Loaded By Driver | 3.13 | QMH2562 | | | 2.58AF | | 8.04.00.0 6.5.6-k2 | N | Y |
| 451871-B 21 | QLogic | PCle | 8Gb | 451871-B 21 | Loaded By Driver | 3.13 | QMH2562 | | | 2.58AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | N | Y |
| 451871-B 21 | QLogic | PCle | 8Gb | 451871-B 21 | Loaded By Driver | 3.08 | QMH2562 | | | 2.52AF | | 8.03.07.1 4.5.6-k (OOB) | N | Y |
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.00a4 | | LPe1205 | | | 6.03a11 | | 8.2.0.134 (OOB) | N | Y |
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.00a4 | 3.11a5 | LPe1205 | | | 6.03a11 | | 8.2.0.136 (OOB) | N | Y |
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.00a4 | 3.11a5 | LPe1205 | | | 6.03a11 | | In Box | N | Y |
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.01 a4 | 3.20a1 | LPe1205 | | | 6.10a8 | | 8.2.2.29 | N | Y |

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|-------------|--------|------|-------|----------------|------------------|--------|--------------------|--------------------|-----|------------|------|---|------------------------|--------------|
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.01 a4 | 3.20a1 | LPe1205 | | | 6.10a8 | | 8.2.0.128.3p | N | Y |
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.01 a4 | 3.20a1 | LPe1205 | | | 6.10a8 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | N | Y |
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.01 a4 | 3.20a1 | LPe1205 | | | 6.10a7 | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | N | Y |
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.01a12 | 3.30a1 | LPe1205 | | | 6.10a14 | | 8.2.2.33 | N | Y |
| 456972-B 21 | Emulex | PCle | 8Gb | 456972-B 21 | 2.01a12 | 3.30a1 | LPe1205 | | | 6.10a14 | | 8.2.0.136 (OOB) | N | Y |
| 651281-B 21 | QLogic | PCle | 8Gb | 651281-B 21 | Loaded by Driver | 3.13 | QMH2572 | | | 2.59AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | N | Y |
| 651281-B 21 | QLogic | PCle | 8Gb | 651281-B 21 | Loaded by Driver | 3.13 | QMH2572 | | | 2.59AF | | 8.04.00.0 6.5.6-k2 | N | Y |
| 651281-B 21 | QLogic | PCle | 8Gb | 651281-B 21 | Loaded by Driver | 3.13 | QMH2572 | | | 2.59AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | N | Y |
| 651281-B 21 | QLogic | PCle | 8Gb | 651281-B 21 | Loaded by Driver | 3.13 | QMH2572 | | | 2.65.01 | | 8.04.00.1 2.5.6-k2 | N | Y |
| 651281-B 21 | QLogic | PCle | 8Gb | 651281-B 21 | Loaded by Driver | 3.13 | QMH2572 | | | 2.65.01 | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | N | Y |

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|-------------|---------|------|-------|----------------|------------------|---------|--------------------|--------------------|-----|------------|---------|--|------------------------|--------------|
| 651281-B 21 | QLogic | PCle | 8Gb | 651281-B 21 | Loaded by Driver | 3.13 | QMH2572 | | | 2.65.01 | | 8.03.07.1 5.05.10-k | N | Y |
| 651281-B 21 | QLogic | PCle | 8Gb | 651281-B 21 | Loaded by Driver | 3.08 | QMH2572 | | NA | 2.50af | | In Box | N | Y |
| 651281-B 21 | QLogic | PCle | 8Gb | 651281-B 21 | Loaded by Driver | 3.08 | QMH2572 | | NA | 2.51af | | 8.03.07.1 4.5.6-k (OOB) | N | Y |
| 710608-B 21 | QLogic | PCle | 16Gb | 710608-B 21 | 6.07.02 | 3.21 | QMH2672 -HP-SP | | | 2.02.47 | | 8.04.00.1 2.5.6-k2 | N | Y |
| 710608-B 21 | QLogic | PCle | 16Gb | 710608-B 21 | 6.07.02 | 3.21 | QMH2672 -HP-SP | | | 2.02.47 | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | N | Y |
| 710608-B 21 | QLogic | PCle | 16Gb | 710608-B 21 | 6.07.02 | 3.21 | QMH2672 -HP-SP | | | | 3.90.02 | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |
| 804 | Brocade | PCle | 8Gb | 590647-B 21 | Loaded by Driver | 3.2.1.0 | 804 | | | | | 3.0.23.0 | N | Y |
| 804 | Brocade | PCle | 8Gb | 590647-B 21 | Loaded by Driver | 3.2.1.0 | 804 | | | | | 3.2.1.0 (OOB) RHEL 5.8/5.9 | N | Y |
| 804 | Brocade | PCle | 8Gb | 590647-B 21 | Loaded by Driver | 3.0.3.4 | 804 | | | | | 3.0.0.0 | N | Y |
| 804 | Brocade | PCle | 8Gb | 590647-B 21 | Loaded by Driver | 3.1.0.2 | 804 | | | | | 3.1.0.0 | N | Y |
| 804 | Brocade | PCle | 8Gb | 590647-B 21 | Loaded by Driver | 3.1.0.2 | 804 | | | | | | | |
| 804 | Brocade | PCle | 8Gb | 590647-B 21 | 3.0.0.0 | 3.0.3.0 | 804 | | | | | 3.0.0.0 | N | Y |
| 81B | Brocade | PCle | 8Gb | AP769A/B | 3.0.0.0 | 3.0.3.0 | 815 | | | | | 3.0.0.0 | N | Y |

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|------|---------|------|-------|----------------|------------------|---------|--------------------|--------------------|-----|------------|------|---|------------------------|--------------|
| 81B | Brocade | PCle | 8Gb | AP769A/B | Loaded by Driver | 3.0.3.4 | 815 | | | | | 3.0.0.0 | N | Y |
| 81B | Brocade | PCle | 8Gb | AP769A/B | Loaded by Driver | 3.1.0.2 | 815 | | | | | 3.1.0.0 | N | Y |
| 81B | Brocade | PCle | 8Gb | AP769A/B | Loaded by Driver | 3.2.1.0 | 815 | | | | | 3.2.1.0 (OOB) RHEL 5.8/5.9 | N | Y |
| 81B | Brocade | PCle | 8Gb | AP769A/B | Loaded by Driver | 3.2.1.0 | 815 | | | | | 3.0.23.0 | N | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.01a12 | 2.12a14 | LPe12000 | | | 5.20a6 | | 8.2.0.136 (OOB) | Y | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.01a12 | 2.12a14 | LPe12000 | | | 5.20a6 | | 8.2.2.33 | Y | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.01 a4 | 2.12a9 | LPe12000 | | | 5.20a0 | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | Y | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.01 a4 | 2.12a9 | LPe12000 | | | 5.20a2 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.01 a4 | 2.12a9 | LPe12000 | | | 5.20a2 | | 8.2.2.29 | Y | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.01 a4 | 2.12a9 | LPe12000 | | | 5.20a2 | | 8.2.0.128.3p | Y | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.00a4 | 2.12a9 | LPe12000 | | | 5.20a0 | | 8.2.0.134 (OOB) | Y | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.00a4 | 2.12a9 | LPe12000 | | | 5.20a0 | | In Box | Y | Y |
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.00a4 | 2.12a9 | LPe12000 | | | 5.20a0 | | 8.2.0.136 (OOB) | Y | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|------|---------|------|-------|----------------|------------------|---------|--------------------|--------------------|-----|------------|---------|--|------------------------|--------------|
| 81e | Emulex | PCle | 8Gb | AJ762A/B | 2.00a4 | 2.02a2 | LPe12000 | | | 5.03a10 | | 8.2.0.134 (OOB) | Y | Y |
| 81Q | QLogic | PCle | 8Gb | AK344A | Loaded By Driver | 2.16 | QLE2560 | | | 2.39AF | | In Box | Y | Y |
| 81Q | QLogic | PCle | 8Gb | AK344A | Loaded By Driver | 3.08 | QLE2560 | | | 2.52AF | | 8.03.07.1 4.5.6-k (OOB) | Y | Y |
| 81Q | QLogic | PCle | 8Gb | AK344A | Loaded By Driver | 3.13 | QLE2560 | | | 2.58AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | Y | Y |
| 81Q | QLogic | PCle | 8Gb | AK344A | Loaded By Driver | 3.13 | QLE2560 | | | 2.58AF | | 8.04.00.0 6.5.6-k2 | Y | Y |
| 81Q | QLogic | PCle | 8Gb | AK344A | Loaded By Driver | 3.13 | QLE2560 | | | 2.65.01 | | 8.04.00.1 2.5.6-k2 | Y | Y |
| 81Q | QLogic | PCle | 8Gb | AK344A | Loaded By Driver | 3.13 | QLE2560 | | | 2.65.01 | | 8.03.07.1 5.05.10-k | Y | Y |
| 81Q | QLogic | PCle | 8Gb | AK344A | Loaded By Driver | 3.13 | QLE2560 | | | | 3.60.04 | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |
| 81Q | QLogic | PCle | 8Gb | AK344A | Loaded By Driver | 3.13 | QLE2560 | | | 2.65.01 | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| 82B | Brocade | PCle | 8Gb | AP770A/B | Loaded by Driver | 3.2.1.0 | 825 | | | | | 3.2.1.0 (OOB) RHEL 5.8/5.9 | N | Y |
| 82B | Brocade | PCle | 8Gb | AP770A/B | Loaded by Driver | 3.2.1.0 | 825 | | | | | 3.0.23.0 | N | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|------|---------|------|-------|----------------|------------------|---------|--------------------|--------------------|-----|------------|------|---|------------------------|--------------|
| 82B | Brocade | PCle | 8Gb | AP770A/B | Loaded by Driver | 3.1.0.2 | 825 | | | | | 3.1.0.0 | N | Y |
| 82B | Brocade | PCle | 8Gb | AP770A/B | 3.0.0.0 | 3.0.3.0 | 825 | | | | | 3.0.0.0 | N | Y |
| 82B | Brocade | PCle | 8Gb | AP770A/B | Loaded by Driver | 3.0.3.4 | 825 | | | | | 3.0.0.0 | N | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.00a4 | 2.12a9 | LPe12002 | | | 5.20a0 | | 8.2.0.134 (OOB) | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.00a4 | 2.12a9 | LPe12002 | | | 5.20a0 | | 8.2.0.136 (OOB) | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.00a4 | 2.12a9 | LPe12002 | | | 5.20a0 | | In Box | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.00a4 | 2.02a2 | LPe12002 | | | 5.03a10 | | 8.2.0.134 (OOB) | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.01 a4 | 2.12a9 | LPe12002 | | | 5.20a0 | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.01 a4 | 2.12a9 | LPe12002 | | | 5.20a2 | | 8.2.0.128.3p | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.01 a4 | 2.12a9 | LPe12002 | | | 5.20a2 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.01 a4 | 2.12a9 | LPe12002 | | | 5.20a2 | | 8.2.2.29 | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.01a12 | 2.12a14 | LPe12002 | | | 5.20a6 | | 8.2.0.136 (OOB) | Y | Y |
| 82e | Emulex | PCle | 8Gb | AJ763A/B | 2.01a12 | 2.12a14 | LPe12002 | | | 5.20a6 | | 8.2.2.33 | Y | Y |
| 82Q | QLogic | PCle | 8Gb | AJ764A | Loaded By Driver | 3.13 | QLE2562 | | | 2.65.01 | | 8.03.07.1 5.05.10-k | Y | Y |

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|----------|--------|------|-------|----------------|------------------|------|--------------------|--------------------|-----|------------|---------|--|------------------------|--------------|
| 82Q | QLogic | PCle | 8Gb | AJ764A | Loaded By Driver | 3.13 | QLE2562 | | | 2.65.01 | | 8.04.00.1 2.5.6-k2 | Y | Y |
| 82Q | QLogic | PCle | 8Gb | AJ764A | Loaded By Driver | 3.13 | QLE2562 | | | | 3.60.04 | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |
| 82Q | QLogic | PCle | 8Gb | AJ764A | Loaded By Driver | 3.13 | QLE2562 | | | 2.65.01 | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| 82Q | QLogic | PCle | 8Gb | AJ764A | Loaded By Driver | 2.16 | QLE2562 | | | 2.39AF | | In Box | Y | Y |
| 82Q | QLogic | PCle | 8Gb | AJ764A | Loaded By Driver | 3.08 | QLE2562 | | | 2.52AF | | 8.03.07.1 4.5.6-k (OOB) | Y | Y |
| 82Q | QLogic | PCle | 8Gb | AJ764A | Loaded By Driver | 3.13 | QLE2562 | | | 2.58AF | | 8.04.00.0 6.5.6-k2 | Y | Y |
| 82Q | QLogic | PCle | 8Gb | AJ764A | Loaded By Driver | 3.13 | QLE2562 | | | 2.58AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | Y | Y |
| FC1142SR | QLogic | PCle | 4Gb | AE311A | Loaded By Driver | 3.13 | QLE2460 | | NA | 2.03AF | | 8.04.00.0 6.5.6-k2 | Y | Y |
| FC1142SR | QLogic | PCle | 4Gb | AE311A | Loaded By Driver | 3.13 | QLE2460 | | NA | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC1142SR | QLogic | PCle | 4Gb | AE311A | Loaded By Driver | 3.13 | QLE2460 | | NA | 2.03AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | Y | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|----------|--------|-----------|-------|----------------|------------------|------|--------------------|--------------------|------|------------|------|--|------------------------|--------------|
| FC1142SR | QLogic | PCIe | 4Gb | AE311A | Loaded By Driver | 3.13 | QLE2460 | | NA | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |
| FC1142SR | QLogic | PCIe | 4Gb | AE311A | Loaded By Driver | 3.13 | QLE2460 | | NA | 2.03AF | | 8.03.07.1 5.05.10-k | Y | Y |
| FC1142SR | QLogic | PCIe | 4Gb | AE311A | Loaded By Driver | 3.08 | QLE2460 | | | 1.99AF | | 8.03.07.1 4.5.6-k (OOB) | Y | Y |
| FC1142SR | QLogic | PCIe | 4Gb | AE311A | Loaded By Driver | 2.16 | QLE2460 | | 2.22 | 1.96AF | | In Box | Y | Y |
| FC1143 | QLogic | PCI-X 2.0 | 4Gb | AB429A | Loaded By Driver | 2.16 | QLA2460 | | 2.22 | 1.96AF | | In Box | Y | Y |
| FC1143 | QLogic | PCI-X 2.0 | 4Gb | AB429A | Loaded By Driver | 3.08 | QLA2460 | | | 1.99AF | | 8.03.07.1 4.5.6-k (OOB) | Y | Y |
| FC1143 | QLogic | PCI-X 2.0 | 4Gb | AB429A | Loaded By Driver | 3.13 | QLA2460 | | | 2.03AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | Y | Y |
| FC1143 | QLogic | PCI-X 2.0 | 4Gb | AB429A | Loaded By Driver | 3.13 | QLA2460 | | | 2.03AF | | 8.03.07.1 5.05.10-k | Y | Y |
| FC1143 | QLogic | PCI-X 2.0 | 4Gb | AB429A | Loaded By Driver | 3.13 | QLA2460 | | | 2.03AF | | 8.04.00.0 6.5.6-k2 | Y | Y |
| FC1143 | QLogic | PCI-X 2.0 | 4Gb | AB429A | Loaded By Driver | 3.13 | QLA2460 | | | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC1143 | QLogic | PCI-X 2.0 | 4Gb | AB429A | Loaded By Driver | 3.13 | QLA2460 | | | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|----------|--------|-----------|-------|----------------|------------------|------|--------------------|--------------------|-----|------------|------|---|------------------------|--------------|
| FC1242SR | QLogic | PCIe | 4Gb | AE312A | Loaded By Driver | 3.13 | QLE2462 | | | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC1242SR | QLogic | PCIe | 4Gb | AE312A | Loaded By Driver | 3.13 | QLE2462 | | | 2.03AF | | 8.03.07.1 5.05.10-k | Y | Y |
| FC1242SR | QLogic | PCIe | 4Gb | AE312A | Loaded By Driver | 3.13 | QLE2462 | | | 2.03AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | Y | Y |
| FC1242SR | QLogic | PCIe | 4Gb | AE312A | Loaded By Driver | 3.13 | QLE2462 | | | 2.03AF | | 8.04.00.0 6.5.6-k2 | Y | Y |
| FC1242SR | QLogic | PCIe | 4Gb | AE312A | Loaded By Driver | 3.13 | QLE2462 | | | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |
| FC1242SR | QLogic | PCIe | 4Gb | AE312A | Loaded By Driver | 2.16 | QLE2462 | | | 1.96AF | | In Box | Y | Y |
| FC1242SR | QLogic | PCIe | 4Gb | AE312A | Loaded By Driver | 3.08 | QLE2462 | | | 1.99AF | | 8.03.07.1 4.5.6-k (OOB) | Y | Y |
| FC1243 | QLogic | PCI-X 2.0 | 4Gb | AE369A | Loaded By Driver | 3.08 | QLA2462 | | | 1.99AF | | 8.03.07.1 4.5.6-k (OOB) | Y | Y |
| FC1243 | QLogic | PCI-X 2.0 | 4Gb | AE369A | Loaded By Driver | 2.16 | QLA2462 | | | 1.96AF | | In Box | Y | Y |
| FC1243 | QLogic | PCI-X 2.0 | 4Gb | AE369A | Loaded By Driver | 3.13 | QLA2462 | | | 2.03AF | | 8.03.07.1 5.05.10-k | Y | Y |
| FC1243 | QLogic | PCI-X 2.0 | 4Gb | AE369A | Loaded By Driver | 3.13 | QLA2462 | | | 2.03AF | | 8.04.00.0 6.5.6-k2 | Y | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|----------|--------|-----------|-------|----------------|------------------|--------|--------------------|--------------------|-----|------------|------|--|------------------------|--------------|
| FC1243 | QLogic | PCI-X 2.0 | 4Gb | AE369A | Loaded By Driver | 3.13 | QLA2462 | | | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |
| FC1243 | QLogic | PCI-X 2.0 | 4Gb | AE369A | Loaded By Driver | 3.13 | QLA2462 | | | 2.03AF | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC1243 | QLogic | PCI-X 2.0 | 4Gb | AE369A | Loaded By Driver | 3.13 | QLA2462 | | | 2.03AF | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2142SR | Emulex | PCle | 4Gb | A8002A/B | 2.82x4 | 2.12a9 | LPe1150 | | | 5.20a0 | | 8.2.2.33 | Y | Y |
| FC2142SR | Emulex | PCle | 4Gb | A8002A/B | 2.82x4 | 2.12a9 | LPe1150 | | | 5.20a0 | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2142SR | Emulex | PCle | 4Gb | A8002A/B | 2.82x4 | 2.12a9 | LPe1150 | | | 5.20a0 | | 8.2.0.128.3p | Y | Y |
| FC2142SR | Emulex | PCle | 4Gb | A8002A/B | 2.82x4 | 2.12a9 | LPe1150 | | | 5.20a0 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2142SR | Emulex | PCle | 4Gb | A8002A/B | 2.82x4 | 2.12a9 | LPe1150 | | | 5.20a0 | | 8.2.2.29 | Y | Y |
| FC2142SR | Emulex | PCle | 4Gb | A8002A/B | 2.82x4 | 2.12a8 | LPe1150 | | | 5.03 a13 | | 8.2.0.136 (OOB) | Y | Y |
| FC2142SR | Emulex | PCle | 4Gb | A8002A/B | 2.82x4 | 2.12a8 | LPe1150 | | | 5.03 a13 | | In Box | Y | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|----------|--------|-----------|-------|----------------|------------------|--------|--------------------|--------------------|--------|------------|------|---|------------------------|--------------|
| FC2142SR | Emulex | PCIe | 4Gb | A8002A/B | 2.82x4 | 2.12a8 | LPe1150 | | | 5.03 a13 | | 8.2.0.134 (OOB) | Y | Y |
| FC2142SR | Emulex | PCIe | 4Gb | A8002A/B | 2.82x4 | | LPe1150 | | | 5.03a10 | | In Box | Y | Y |
| FC2142SR | Emulex | PCIe | 4Gb | A8002A/B | 2.82x4 | | LPe1150 | | 4.00a8 | 5.03a10 | | In Box | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | 2.12a8 | LP1150 | | | 5.03 a13 | | In Box | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | 2.12a8 | LP1150 | | | 5.03 a13 | | 8.2.0.136 (OOB) | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | 2.12a8 | LP1150 | | | 5.03 a13 | | 8.2.0.134 (OOB) | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | | LP1150 | | | 5.03a10 | | In Box | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | 2.12a9 | LP1150 | | | 5.20a0 | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | 2.12a9 | LP1150 | | | 5.20a0 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | 2.12a9 | LP1150 | | | 5.20a0 | | 8.2.2.33 | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | 2.12a9 | LP1150 | | | 5.20a0 | | 8.2.0.128.3p | Y | Y |
| FC2143 | Emulex | PCI-X 2.0 | 4Gb | AD167A | 2.82x4 | 2.12a9 | LP1150 | | | 5.20a0 | | 8.2.2.29 | Y | Y |
| FC2242SR | Emulex | PCIe | 4Gb | A8003A/B | 2.82x4 | 2.12a9 | LPe11002 | | | 5.20a0 | | 8.2.0.128.3p | Y | Y |

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|----------|--------|-----------|-------|----------------|------------------|--------|--------------------|--------------------|--------|------------|------|---|------------------------|--------------|
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | 2.12a9 | LPe11002 | | | 5.20a0 | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | 2.12a9 | LPe11002 | | | 5.20a0 | | 8.2.2.33 | Y | Y |
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | 2.12a9 | LPe11002 | | | 5.20a0 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | 2.12a9 | LPe11002 | | | 5.20a0 | | 8.2.2.29 | Y | Y |
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | 2.12a8 | LPe11002 | | | 5.03 a13 | | In Box | Y | Y |
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | 2.12a8 | LPe11002 | | | 5.03 a13 | | 8.2.0.136 (OOB) | Y | Y |
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | 2.12a8 | LPe11002 | | | 5.03 a13 | | 8.2.0.134 (OOB) | Y | Y |
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | | LPe11002 | | | 5.03a10 | | In Box | Y | Y |
| FC2242SR | Emulex | PCle | 4Gb | A8003A/B | 2.82x4 | | LPe11002 | | 4.00a8 | 5.03a10 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a8 | LP11002 | | | 5.03 a13 | | 8.2.0.134 (OOB) | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a8 | LP11002 | | | 5.03 a13 | | In Box | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a8 | LP11002 | | | 5.03 a13 | | 8.2.0.136 (OOB) | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | | LP11002 | | | 5.03a10 | | In Box | Y | Y |

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| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|-----------|--------|-----------|-------|----------------|------------------|--------|--------------------|--------------------|-----|------------|------|---|------------------------|--------------|
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a9 | LP11002 | | | 5.20a0 | | 8.2.2.33 | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a9 | LP11002 | | | 5.20a0 | | 8.2.0.128.3p | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a9 | LP11002 | | | 5.20a0 | | In Box, 8.2.0.145 (OOB) | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a9 | LP11002 | | | 5.20a0 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a9 | LP11002 | | | 5.20a0 | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | Y | Y |
| FC2243 | Emulex | PCI-X 2.0 | 4Gb | AD168A | 2.82x4 | 2.12a9 | LP11002 | | | 5.20a0 | | 8.2.2.29 | Y | Y |
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.00a8 | 3.20a1 | LPe1205 A | | | 6.10a7 | | In Box, 8.2.0.145 (OOB) RHEL 5.8/5.9 | Y | Y |
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.00a8 | 3.20a1 | LPe1205 A | | | 6.10a7 | | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | N | Y |
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.02x6 | 3.20a1 | LPe1205 A | | | 6.10a8 | | 8.2.2.29 | N | Y |
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.02x6 | 3.20a1 | LPe1205 A | | | 6.10a8 | | 8.2.0.128.3p | N | Y |
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.02x6 | 3.20a1 | LPe1205 A | | | 6.10a8 | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | N | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|------------|--------|------|-------|----------------|------------------|-----------------|--------------------|--------------------|-----|------------|------|-----------------------------------|------------------------|--------------|
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.00a8 | 3.12a3 | LPe1205 A | | | 6.10a4 | | 8.2.0.136 | N | Y |
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.00a8 | 3.12a3 | LPe1205 A | | | 6.10a4 | | In Box | N | Y |
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.02x6 | 3.30a1 | LPe1205 A | | | 6.10a14 | | 8.2.2.33 | N | Y |
| LPe1205 A | Emulex | PCle | 8Gb | 659818-B 21 | 2.02x6 | 3.30a1 | LPe1205 A | | | 6.10a14 | | 8.2.0.136 | N | Y |
| LPe1605 | Emulex | PCle | 16Gb | 718203-B 21 | 1.1.62.0 | Contained in FW | LPe1605 | | | | | 8.2.2.33 | N | Y |
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.1.62.0 | Contained in FW | LPe16000 | | | | | 8.2.2.33 | Y | Y |
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.1.62.0 | Contained in FW | LPe16000 | | | | | In Box | N | Y |
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.0.11.11 0 | Contained in FW | LPe16000 | | | | | 8.2.0.134 (OOB) | N | Y |
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.0.11.11 0 | Contained in FW | LPe16000 | | | | | In Box | Y | Y |
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.0.11.11 0 | Contained in FW | LPe16000 | | | | | 8.2.0.136 (OOB) | N | Y |
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.0.11.10 8 | Contained in FW | LPe16000 | | | | | In Box | N | Y |
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.1.43.6 | Contained in FW | LPe16000 | | | | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.1.43.6 | Contained in FW | LPe16000 | | | | | 8.2.2.29 | Y | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|------------|--------|------|-------|----------------|------------------|-----------------|--------------------|--------------------|-----|------------|------|---|------------------------|--------------|
| SN1000E 1P | Emulex | PCle | 16Gb | QR558A | 1.1.21.8 | Contained in FW | LPe16000 | | | | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.1.21.8 | Contained in FW | LPe16002 | | | | | In Box, 8.2.0.145 (OOB), 8.2.0.145.4 p (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.1.43.6 | Contained in FW | LPe16002 | | | | | 8.2.2.21.2 p-1 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.1.43.6 | Contained in FW | LPe16002 | | | | | 8.2.2.29 | Y | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.0.11.10 8 | Contained in FW | LPe16002 | | | | | In Box | N | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.0.11.11 0 | Contained in FW | LPe16002 | | | | | 8.2.0.136 (OOB) | N | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.0.11.11 0 | Contained in FW | LPe16002 | | | | | 8.2.0.134 (OOB) | N | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.0.11.11 0 | Contained in FW | LPe16002 | | | | | In Box | Y | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.1.62.0 | Contained in FW | LPe16002 | | | | | 8.2.2.33 | Y | Y |
| SN1000E 2P | Emulex | PCle | 16Gb | QR559A | 1.1.62.0 | Contained in FW | LPe16002 | | | | | In Box | N | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|------------|--------|------|-------|----------------|------------------|------|--------------------|--------------------|-----|------------|---------|---|------------------------|--------------|
| SN1000Q 1P | QLogic | PCle | 16Gb | QW971A | 6.07.02 | 3.21 | QLE2660 | | NA | 6.20 | 3.90.01 | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1000Q 1P | QLogic | PCle | 16Gb | QW971A | 6.07.02 | 3.21 | QLE2660 | | | | 3.90.02 | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |
| SN1000Q 1P | QLogic | PCle | 16Gb | QW971A | 6.07.02 | 3.21 | QLE2660 | | NA | 2.02.47 | | 8.04.00.1 2.5.6-k2 | Y | Y |
| SN1000Q 1P | QLogic | PCle | 16Gb | QW971A | 6.07.02 | 3.21 | QLE2660 | | NA | 2.02.47 | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1000Q 1P | QLogic | PCle | 16Gb | QW971A | 6.02.00 | 3.14 | QLE2660 | | NA | 2.00.47 | | 8.04.00.0 6.5-6-k2 | Y | Y |
| SN1000Q 1P | QLogic | PCle | 16Gb | QW971A | 6.2.00 | 3.18 | QLE2660 | | NA | 2.01.10 | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1000Q 2P | QLogic | PCle | 16Gb | QW972A | 6.07.02 | 3.21 | QLE2662 | | NA | 2.02.47 | | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1000Q 2P | QLogic | PCle | 16Gb | QW972A | 6.07.02 | 3.21 | QLE2662 | | NA | 2.02.47 | | 8.04.00.1 2.5.6-k2 | Y | Y |
| SN1000Q 2P | QLogic | PCle | 16Gb | QW972A | 6.2.00 | 3.18 | QLE2662 | | NA | 2.01.10 | | 8.04.00.1 0.5.6-k (OOB) RHEL 5.8/5.9 | Y | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|------------|--------|------|-------|----------------|------------------|----------------------|--------------------|--------------------|-----|------------|---------|--|------------------------|--------------|
| SN1000Q 2P | QLogic | PCle | 16Gb | QW972A | 6.02.00 | 3.14 | QLE2662 | | NA | 2.00.47 | | 8.04.00.0 6.5-6-k2 | Y | Y |
| SN1000Q 2P | QLogic | PCle | 16Gb | QW972A | 6.07.02 | 3.21 | QLE2662 | | | | 3.90.02 | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.9/5.10 | Y | Y |
| SN1000Q 2P | QLogic | PCle | 16Gb | QW972A | 6.07.02 | 3.21 | QLE2662 | | NA | 6.20 | 3.90.01 | 8.04.00.1 2.5.6-k2 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1100E 1P | Emulex | PCle | 16Gb | C8R38A | 1.1.62.0 | Included in firmware | LPe16000b | | | | | 8.2.2.33 | Y | Y |
| SN1100E 1P | Emulex | PCle | 16Gb | C8R38A | 1.1.62.0 | Included in firmware | LPe16000b | | | | | 8.2.2.21 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1100E 1P | Emulex | PCle | 16Gb | C8R38A | 1.1.43.6 | Included in firmware | LPe16000b | | | | | 8.2.2.21 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1100E 1P | Emulex | PCle | 16Gb | C8R38A | 1.1.43.6 | Included in firmware | LPe16000b | | | | | 8.2.2.29 | Y | Y |
| SN1100E 2P | Emulex | PCle | 16Gb | C8R39A | 1.1.43.6 | Included in firmware | LPe16002b | | | | | 8.2.2.29 | Y | Y |
| SN1100E 2P | Emulex | PCle | 16Gb | C8R39A | 1.1.43.6 | Included in firmware | LPe16002b | | | | | 8.2.2.21 (OOB) RHEL 5.8/5.9 | Y | Y |
| SN1100E 2P | Emulex | PCle | 16Gb | C8R39A | 1.1.62.0 | Included in firmware | LPe16002b | | | | | 8.2.2.33 | Y | Y |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Speed | HP Part Number | Firmware Version | BIOS | Vendor Part Number | Old HP Part Number | EFI | Boot Image | UEFI | Driver Version | Direct Connect Support | Boot Support |
|------------|--------|------|-------|----------------|------------------|----------------------|--------------------|--------------------|-----|------------|------|-----------------------------|------------------------|--------------|
| SN1100E 2P | Emulex | PCIe | 16Gb | C8R39A | 1.1.62.0 | Included in firmware | LPe16002b | | | | | 8.2.2.21 (OOB) RHEL 5.8/5.9 | Y | Y |

Notes:

General Host Bus Adapter (HBA) (216) Notes:

- 1) The following Emulex 2Gb HBAs are supported with 3PAR OS 3.1.1 only: LP9002, LP9402, LP9802, LP10000.
- 2) Emulex 4Gb HBAs LP11000 and LPe11000 are also supported using the same driver/firmware/bios combinations stated as supported for FC2143/LP1150 and FC2142SR/LPe1150 respectively.
- 3) The following Emulex 8Gb HBAs are also supported: LPe1205
- 4) The following QLogic 4Gb HBAs are also supported: QLe2464, QLe2440, QLA2440
- 5a) For Emulex LPe12xxx HBAs firmware version 2.00a3 is NOT supported.
- 5b) Emulex LPe16xxx HBAs are only supported from RH 5u8 and later
- 5c) Qlogic QLE26xx 16G HBAs are only supported from RH 5u8 and later
- 6) This is the list of QLogic and Emulex driver versions:
 - 6a) RHEL 5 U3: 8.02.00.06.05.03-k (QLogic)
 - 6b) RHEL 5 U3: 8.2.0.33.3p (Emulex)
 - 6c) RHEL 5 U4: 8.03.00.10.05.05-k (QLogic)
 - 6d) RHEL 5 U4: 8.2.0.48.3p (Emulex)
 - 6e) RHEL 5 U5: 8.03.01.04.05.05-k (QLogic)
 - 6f) RHEL 5 U5: 8.2.0.63.3p (Emulex)
 - 6g) RHEL 5 U6: 8.03.01.05.05.06-k (QLogic)
 - 6h) RHEL 5 U6: 8.2.0.63.3p (Emulex), HP preferred: 8.2.0.104
 - 6i) RHEL 5 U7: 8.03.07.03.05.07-k (QLogic), 8.03.07.03.5.6-k6, HP preferred: 8.03.07.14.5.6-k (OOB)
 - 6j) RHEL 5 U7: 8.2.0.96.2p (Emulex), HP preferred: 8.2.0.134 (OOB)
 - 6k) RHEL 5 U8: 8.03.07.03.5.6-k6(OOB) (QLogic), 8.03.07.14.5.6-k (OOB), HP preferred: 8.04.00.10.5.6-k (OOB)
 - 6l) RHEL 5 U8: 8.2.0.108.4p (Emulex), 8.2.0.134 (OOB), 8.2.0.145.4p (OOB), HP preferred: 8.2.0.145.4p (OOB)
 - 6m) RHEL 5 U9: 8.03.07.15.05.09-k (QLogic), HP preferred: 8.04.00.10.5.6-k (OOB)
 - 6n) RHEL 5 U9: 8.2.0.128.3p (Emulex), 8.2.0.134 (OOB), 8.2.0.136 (OOB), 8.2.0.145 (OOB), HP preferred: 8.2.0.145.4p (OOB)
- 7) For RHEL 5 U1 and U2, inbox drivers are not supported. Use one of the versions below.
 - 7a) RHEL 5 U1: 8.01.07.15, 8.02.14.01, 8.01.07.25, 8.01.01 (QLogic)
 - 7b) RHEL 5 U1: 8.1.10.12, 8.2.0.22, 8.1.10.3, 8.1.10.9 (Emulex)
 - 7c) RHEL 5 U2: 8.01.07.15, 8.02.14.01, 8.01.07.25, 8.01.01 (QLogic)
 - 7d) RHEL 5 U2: 8.1.10.12, 8.1.10.3, 8.1.10.9 (Emulex)
- 8a) Brocade HBA is supported on RHEL 5.6/5.7/5.8/5.9 only
- 9) QMH2572 HBA supported only on RHEL 5.7/5.8/5.9

Converged Network Adapter (CNA) (132)

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|-----|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|--------------------------------------|-------------------------|-------------|--------------|------------------------|
| 526FLR | HP | LOM | 10GbE | | 629138-B21 | | QDH825 2-HP-S P | | | 01.13.51 | 4.14.26 | | 5.0.29.5 | | | N |
| 526FLR | HP | LOM | 10GbE | | 629138-B21 | | QDH825 2-HP-S P | | | 01.13.51 | 4.14.26 | | 5.0.29.5 | | | N |
| 526FLR | HP | LOM | 10GbE | | 629138-B21 | | QDH825 2-HP-S P | | | 01.13.23 | 4.14.25 | 8.04.00.12.5.6-k2 (OOB) RHEL 5.8/5.9 | 5.0.29 (Inbox) RHEL 5.9 | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.9.311.20 | 8.2.0.136 (OOB) | | | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|-----|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|--------------------------------------|--------------------|-------------|--------------|------------------------|
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.402.20 | 8.2.0.134 (OOB) | | | Yes | No |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.7 | 8.2.0.136 (OOB) | | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| 554FLB | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|-----|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|---------------------------------|--------------------|-------------|--------------|------------------------|
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.402.20 | 8.2.0.134 (OOB) | | | Yes | No |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.7 | 8.2.0.136 (OOB) | | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.9.311.20 | 8.2.0.136 (OOB) | | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|----------------------------------|--------------------|-------------|--------------|------------------------|
| 554FLR | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| 554M | HP | PCle | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.9.311.20 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| 554M | HP | PCle | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |
| 554M | HP | PCle | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.14 5.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| 554M | HP | PCle | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.14 5 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| 554M | HP | PCle | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |
| 554M | HP | PCle | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| 554M | HP | PCle | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.1.450.7 | 8.2.0.13 6 (OOB) | | | Y | N |
| 554M | HP | PCle | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.1.402.20 | 8.2.0.13 4 (OOB) | | | Yes | No |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|---------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|--------------------------------------|--------------------|-------------|--------------|------------------------|
| 554M | HP | PCIe | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| 554M | HP | PCIe | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |
| 554M | HP | PCIe | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| 554M | HP | PCIe | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |
| 554M | HP | PCIe | 10 GbE | | 647590-B21 | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.1.450.7 | 8.2.0.136 (OOB) | | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | | | | 4.0.360-15 | In Box | | | Yes | No |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.1.402.20 | 8.2.0.134 (OOB) | | | Yes | No |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|---------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|--------------------------------------|--------------------|-------------|--------------|------------------------|
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.9.311.20 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| CN1000E | HP | PCIe | 10 GbE | | AW520 A/B | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|----------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|----------------------------------|-------------------------|-------------|--------------|------------------------|
| CN1000 Q | HP | PCIe | 10 GbE | | BS668A | | | | | 01.13.23 | 4.14.25 | 8.04.00.12.5.6-k2 (OOB) RHEL 5.9 | 5.0.29 (Inbox) RHEL 5.9 | | Y | N |
| CN1000 Q | HP | PCIe | 10 GbE | | BS668A | | | | | 01.13.23 | 4.14.25 | 8.04.00.12.5.6-k2 (OOB) RHEL 5.8 | 5.0.29.5 (OOB) RHEL 5.8 | | Y | N |
| CN1000 Q | HP | PCIe | 10 GbE | | BS668A | | | | | 01.13.51 | 4.14.26 | | 5.0.29.5 | | | N |
| CN1000 Q | HP | PCIe | 10 GbE | | BS668A | | | | | 01.13.51 | 4.14.26 | | 5.0.29.5 | | | N |
| CN1100 E | HP | PCIe | 10 GbE | | BK835A | | | Contained in FW | | | 4.9.311.20 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| CN1100 E | HP | PCIe | 10 GbE | | BK835A | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |
| CN1100 E | HP | PCIe | 10 GbE | | BK835A | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| CN1100 E | HP | PCIe | 10 GbE | | BK835A | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |
| CN1100 E | HP | PCIe | 10 GbE | | BK835A | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |
| CN1100 E | HP | PCIe | 10 GbE | | BK835A | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|---------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|--------------------------------------|--------------------|-------------|--------------|------------------------|
| CN1100E | HP | PCle | 10 GbE | | BK835A | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |
| CN1100E | HP | PCle | 10 GbE | | BK835A | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| CN1100E | HP | PCle | 10 GbE | | BK835A | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| CN1100E | HP | PCle | 10 GbE | | BK835A | | | | | | 4.0.360-15 | In Box | | | Yes | No |
| CN1100E | HP | PCle | 10 GbE | | BK835A | | | Contained in FW | | | 4.1.450.7 | 8.2.0.136 (OOB) | | | Y | N |
| CN1100E | HP | PCle | 10 GbE | | BK835A | | | Contained in FW | | | 4.1.402.20 | 8.2.0.134 (OOB) | | | Yes | No |
| CN1100E | HP | PCle | 10 GbE | | BK835A | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| CN1100E | HP | PCle | 10 GbE | | BK835A | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|-----|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|-----------------------------------|--------------------|-------------|--------------|------------------------|
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.402.20 | 8.2.0.134 (OOB) | | | Yes | No |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.7 | 8.2.0.136 (OOB) | | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | | | | 4.0.360-15 | In Box | | | Yes | No |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|----------------------------------|--------------------|-------------|--------------|------------------------|
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.9.311.20 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |
| NC551i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.9.311.20 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|-----------------------------------|--------------------|-------------|--------------|------------------------|
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | | | | 4.0.360-15 | In Box | | | Yes | No |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.1.402.20 | 8.2.0.134 (OOB) | | | Yes | No |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.1.450.7 | 8.2.0.136 (OOB) | | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |
| NC551m | HP | PCle | 10 GbE | | 580151-B21 | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.7 | 8.2.0.136 (OOB) | | | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|-----|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|--------------------------------------|--------------------|-------------|--------------|------------------------|
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.1.402.20 | 8.2.0.134 (OOB) | | | Yes | No |
| NC553i | HP | LOM | 10GbE | | | | | | | | 4.0.360-15 | In Box | | | Yes | No |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.9.311.20 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|----------------------------------|--------------------|-------------|--------------|------------------------|
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |
| NC553i | HP | LOM | 10GbE | | | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| NC553m | HP | PCle | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145 (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| NC553m | HP | PCle | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.2.401.2215 | 8.2.0.145.4p (OOB) RHEL 5.8/5.9 | 4.2.389.0 | | Y | N |
| NC553m | HP | PCle | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.6.247.5 | 8.2.2.29 (OOB) RHEL 5.10 | 4.9.215.3 | 6.3.18.1-2 | Y | N |
| NC553m | HP | PCle | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.6.247.5 | 8.2.2.21.2p-1 (OOB) RHEL 5.8/5.9 | 4.6.247.7 | | Y | N |
| NC553m | HP | PCle | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.9.311.20 | In Box | | | Yes | No |
| NC553m | HP | PCle | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.9.311.20 | 8.2.2.33 | 4.9.311.1 | | Y | N |
| NC553m | HP | PCle | 10 GbE | | 613431-B21 | | | | | | 4.0.360-15 | In Box | | | Yes | No |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Vendor | Bus | Ethernet Speed | FC Speed | HP Part Number | 3PO Part Number | Vendor Part Number | BIOS | EFI | Boot Image | Firmware | Driver Version | NIC Driver Version | One Command | Boot Support | Direct Connect Support |
|--------|--------|------|----------------|----------|----------------|-----------------|--------------------|-----------------|-----|------------|--------------|--------------------------------------|--------------------|-------------|--------------|------------------------|
| NC553m | HP | PCIe | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.1.402.20 | 8.2.0.134 (OOB) | | | Yes | No |
| NC553m | HP | PCIe | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.1.450.7 | 8.2.0.136 (OOB) | | | Y | N |
| NC553m | HP | PCIe | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.1.450.16 | | | | | |
| NC553m | HP | PCIe | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| NC553m | HP | PCIe | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) | | | Y | N |
| NC553m | HP | PCIe | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.1.450.16 | 8.2.0.136 (OOB) 8.3.5.77.1p (OOB) | | | Y | N |
| NC553m | HP | PCIe | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.1.450.7 | | Y | N |
| NC553m | HP | PCIe | 10 GbE | | 613431-B21 | | | Contained in FW | | | 4.1.450.1707 | 8.2.0.136 (OOB) | 4.2.116.0r | | Y | N |

Notes:

General Converged Network Adapter (CNA) (132) Notes:

1) This is the list of QLogic and Emulex OOB driver versions:

1a) RHEL 5 U6: 8.2.0.106-1p (Emulex)

1b) RHEL 5 U7: 8.2.0.106-1p (Emulex), HP Preferred: 8.2.0.136 (OOB)

1c) RHEL 5 U8: 8.2.0.136 (OOB)

2) NC551i, NC551m, NC553i, NC553m, CN1000E are only supported on RHEL 5 U7 and later

| Fibre Channel Switch (60) | | | | | |
|---|-----------------|---------|-----------|--|--------------------|
| Name | Class | Vendor | Bandwidth | Port Count | Vendor Part Number |
| Brocade 16Gb/16 SAN Switch for HP BladeSystem c-Class | Embedded Switch | Brocade | 16Gb/s | 16 ports active any combo/16 Internal, 12 External | 6548 |
| Brocade 16Gb/28 SAN Switch for HP BladeSystem c-Class | Embedded Switch | Brocade | 16Gb/s | 16 Internal, 12 External | 6548 |
| Brocade 16Gb/28 SAN Switch Pwr Pk+ for HP BladeSystem c-Class | Embedded Switch | Brocade | 16Gb/s | 16 Internal, 12 External | 6548 |
| Brocade 4Gb SAN Switch for HP c-Class BladeSystem, Brocade 4/12 SAN Switch | Embedded Switch | Brocade | 4Gb/s | 8 internal, 4 external | 4024 |
| Brocade 4Gb SAN Switch for HP c-Class BladeSystem, Brocade 4/24 SAN Switch | Embedded Switch | Brocade | 4Gb/s | 16 internal, 8 external | 4024 |
| Brocade 4Gb SAN Switch for HP c-Class BladeSystem, Brocade 4/24 SAN Switch Power Pack | Embedded Switch | Brocade | 4Gb/s | 16 internal, 8 external | 4024 |
| Brocade 8Gb SAN Switch for HP BladeSystem c-Class, 8/12c | Embedded Switch | Brocade | 8Gb/s | 12 | 5480 |
| Brocade 8Gb SAN Switch for HP BladeSystem c-Class, 8/24c | Embedded Switch | Brocade | 8Gb/s | 24 | 5480 |
| Brocade 8Gb SAN Switch for HP BladeSystem c-Class, 8/24c Pwr Pack+ | Embedded Switch | Brocade | 8Gb/s | 24 | 5480 |
| Cisco MDS 8Gb Fabric Switch for HP BladeSystem c-Class | Embedded Switch | Cisco | 8Gb/s | 16 internal, 8 external | |
| Cisco MDS 9124 Fabric Switch | Edge | Cisco | 4Gb/s | 24 | MDS9124 |
| Cisco MDS 9124e Fabric Switch for c-Class BladeSystem | Embedded Switch | Cisco | 4Gb/s | 8 internal, 4 external | MDS9124e |

HP 3PAR F200/F400 T400/T800 FC Red Hat Enterprise Linux 5 IA32/x64

| Name | Class | Vendor | Bandwidth | Port Count | Vendor Part Number |
|---|----------|---------|-----------|------------|--------------------|
| Cisco MDS 9134 Fabric Switch | Edge | Cisco | 4Gb/s | 32 | MDS9134 |
| Cisco MDS 9222i Multiservice Fabric Switch | Edge | Cisco | 4Gb/s | 66 | MDS9222i |
| HP SN3000B 16Gb 24/12 Fibre Channel Switch | Edge | Brocade | 16Gb/s | 24 | 6505 |
| HP SN3000B 16Gb 24/24 Fibre Channel Switch | Edge | Brocade | 16Gb/s | 24 | 6505 |
| HP SN6000B 16Gb 48-port/24-port Active Fibre Channel Switch | Edge | Brocade | 16Gb/s | 48 | 6510 |
| HP SN6000B 16Gb 48-port/24-port Active Power Pack+ Fibre Channel Switch | Edge | Brocade | 16Gb/s | 48 | 6510 |
| HP SN6000B 16Gb 48-port/48-port Active Fibre Channel Switch | Edge | Brocade | 16Gbs | 48 | 6510 |
| HP SN6000B 16Gb 48-port/48-port Active Power Pack+ Fibre Channel Switch | Edge | Brocade | 16Gb/s | 48 | 6510 |
| HP SN6000C Fibre Channel Switch (Cisco MDS 9148 Fabric Switch) | Edge | Cisco | 8Gb/s | 48 | MDS9148 |
| HP SN8000B 16Gb 32-port Fibre Channel Blade | Module | Brocade | 16Gb/s | 32 | FC16-32 |
| HP SN8000B 16Gb 48-port Fibre Channel Blade | Module | Brocade | 16Gb/s | 48 | FC16-48 |
| HP SN8000B 4-Slot Power Pack+ SAN Director Switch | Director | Brocade | 16Gb/s | 32 to 256 | DCX 8510-4 |
| HP SN8000B 4-Slot SAN Director Switch | Director | Brocade | 16Gb/s | 32 to 256 | DCX 8510-4 |
| HP SN8000B 8Gb 48-port Enhanced Fibre Channel Blade | Module | Brocade | 8Gb/s | 48 | FC8-48E |

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| Name | Class | Vendor | Bandwidth | Port Count | Vendor Part Number |
|--|----------|---------|-----------|------------|--------------------|
| HP SN8000B 8-Slot Power Pack+ SAN Backbone Director Switch | Director | Brocade | 16Gb/s | 32 to 512 | DCX 8510-8 |
| HP SN8000C 13-Slot Director Switch (Cisco MDS 9513 Multilayer Director Switch) | Director | Cisco | 4Gb/s | 528 | MDS9513 |
| HP SN8000C 6-Slot Director Switch (Cisco MDS 9506 Multilayer Director Switch) | Director | Cisco | 4Gb/s | 192 | MDS9506 |
| HP SN8000C 9-Slot Director Switch (Cisco MDS 9509 Multilayer Director Switch) | Director | Cisco | 4Gb/s | 336 | MDS9509 |
| HP StorageWorks 4/16 SAN Switch | Edge | Brocade | 4Gb/s | 16 | 200e |
| HP StorageWorks 4/256 SAN Director | Director | Brocade | 4Gb/s | 16 to 384 | 48000 |
| HP StorageWorks 4/256 SAN Director Power Pack | Director | Brocade | 4Gb/s | 16 to 384 | 48000 |
| HP StorageWorks 4/8 SAN Switch | Edge | Brocade | 4Gb/s | 8 | 200e |
| HP StorageWorks 8/20q Fibre Channel Switch | Edge | QLogic | 8Gb/s | 20 | n/a |
| HP StorageWorks 8/24 SAN Switch | Edge | Brocade | 8Gb/s | 24 | 300 |
| HP StorageWorks 8/40 Power Pack | Edge | Brocade | 8Gb/s | 40 | 5100 |
| HP StorageWorks 8/40 SAN Switch | Edge | Brocade | 8Gb/s | 40 | 5100 |
| HP StorageWorks 8/8 SAN Switch | Edge | Brocade | 8Gb/s | 8 | 300 |
| HP StorageWorks 8/80 Power Pack | Edge | Brocade | 8Gb/s | 80 | 5300 |

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| Name | Class | Vendor | Bandwidth | Port Count | Vendor Part Number |
|--|----------|---------|-----------|------------|--------------------|
| HP StorageWorks 8/80 SAN Switch | Edge | Brocade | 8Gb/s | 80 | 5300 |
| HP StorageWorks DC SAN Backbone Director Switch | Director | Brocade | 8Gb/s | 16 to 384 | DCX |
| HP StorageWorks DC Switch Encryption FC Blade | Module | Brocade | 8Gb/s | 16 | FS8-18 |
| HP StorageWorks DC04 Power Pack+ SAN Director Switch | Director | Brocade | 8Gb/s | 16 to 192 | DCX-4S |
| HP StorageWorks DC04 SAN Director Switch | Director | Brocade | 8Gb/s | 16 to 192 | DCX-4S |
| HP StorageWorks Encryption SAN Switch | Edge | Brocade | 8Gb/s | 32 | BES |
| HP StorageWorks SAN Switch 4/32B Base | Edge | Brocade | 4Gb/s | 32 | 5000 |
| HP StorageWorks SAN Switch 4/32B Base Full | Edge | Brocade | 4Gb/s | 32 | 5000 |
| HP StorageWorks SAN Switch 4/32B Power Pack | Edge | Brocade | 4Gb/s | 32 | 5000 |
| HP StorageWorks SAN Switch 4/64 Base | Edge | Brocade | 4Gb/s | 64 | 4900 |
| HP StorageWorks SAN Switch 4/64 Base Power Pack | Edge | Brocade | 4Gb/s | 32/48/64 | 4900 |
| HP StorageWorks SAN Switch 4/64 Power Pack | Edge | Brocade | 4Gb/s | 64 | 4900 |
| HP StorageWorks SAN Switch 4/64 Power Pack | Edge | Brocade | 4Gb/s | 64 | |
| HP StorageWorks SN6000 Fibre Channel Switch | Edge | QLogic | 8Gb/s | 24 | SB5800V, SB5802V |
| HP StoreFabric SN6500B 16Gb 96/48 FC Switch | Edge | Brocade | 16Gb/s | 48 | 6520 |

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| Name | Class | Vendor | Bandwidth | Port Count | Vendor Part Number |
|--|----------|---------|-----------|------------|--------------------|
| HP StoreFabric SN6500B 16Gb 96/48 Power Pack+ FC Switch | Edge | Brocade | 16Gb/s | 48 | 6520 |
| HP StoreFabric SN6500B 16Gb 96/96 FC Switch | Edge | Brocade | 16Gb/s | 96 | 6520 |
| HP StoreFabric SN6500B 16Gb 96/96 Power Pack+ FC Switch | Edge | Brocade | 16Gb/s | 96 | 6520 |
| HP StoreFabric SN8500C 48-port 16Gb FC Module | Module | Cisco | 16 Gbs | 48 | DS-X9448H768K9 |
| HP StoreFabric SN8500C 8-slot 16Gb FC Director | Director | Cisco | 16 Gbs | 384 | MDS9710 |

Notes:

General Fibre Channel Switch (60) Notes:

The Brocade Mi10k Director is supported with the 2Gb speed blades with 3PAR OS 3.1.1 only.

| Fibre Channel over Ethernet (FCoE) Switch (8) | | | | | | | |
|--|--------|-------|---------------|---------------|---------------------|---------------------|--------------------|
| Name | Vendor | Class | FC Port Speed | FC Port Count | Ethernet Port Speed | Ethernet Port Count | Vendor Part Number |
| Cisco Nexus 5010 Converged Network Switch | Cisco | Edge | 4Gb/s | 8 | 10Gb/s | 26 | |
| Cisco Nexus 5020 Converged Network Switch | Cisco | Edge | 4Gb/s | 16 | 10Gb/s | 52 | |
| Cisco Nexus 5548UP Converged Network Switch | Cisco | Edge | 8Gb/s | 48 | 10Gb/s | 48 | N5K-C5548UP-OSM |
| Cisco Nexus 5596UP Converged Network Switch | Cisco | Edge | 8Gb/s | 96 | 10Gb/s | 96 | N5K-C5596UP-OSM |

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| Name | Vendor | Class | FC Port Speed | FC Port Count | Ethernet Port Speed | Ethernet Port Count | Vendor Part Number |
|--|---------|--------|---------------|---------------|---------------------|---------------------|--------------------|
| HP FlexFabric 5900CP | HP | Edge | 8Gb/s | 48 | 10GbE / 40GbE | 48 / 4 | JG838A |
| HP StorageWorks 2408 FCoE Converged Network Switch | Brocade | Edge | 8Gb/s | 8 | 10Gb/s | 24 | 8000 |
| HP StorageWorks 2408 FCoE Power Pack+ Converged Network Switch | Brocade | Edge | 8Gb/s | 8 | 10Gb/s | 24 | 8000 |
| HP StorageWorks DC SAN Director Switch 10/24 FCoE Blade | Brocade | Module | 8Gb/s | n/a | 10Gb/s | 24 | FCOE10-24 |

| Router (7) | | | | | | | | |
|---|---------|----------------|----------------|-------------------------|-------------|---------------------|---------------------|--------------------|
| Name | Vendor | Class | Port Speed | Port Count | Port Type | Ethernet Port Speed | Ethernet Port Count | Vendor Part Number |
| HP StorageWorks 1606 Base Extension SAN Switch | Brocade | Router-Gateway | 8Gb/s (FC/FCR) | 16 (FC/FCR, 4 licensed) | FC/FCR/FCIP | 1Gb/s | 6 (2 licensed) | 7800 |
| HP StorageWorks 1606 Full Extension SAN Switch | Brocade | Router-Gateway | 8Gb/s (FC/FCR) | 16 (FC/FCR) | FC/FCR/FCIP | 1Gb/s | 6 | 7800 |
| HP StorageWorks 1606 Power Pack+ Extension SAN Switch | Brocade | Router-Gateway | 8Gb/s (FC/FCR) | 16 (FC/FCR) | FC/FCR/FCIP | 1Gb/s | 6 | 7800 |
| HP StorageWorks 400 Multi-protocol Router 7500 | HP | Router-Gateway | 4Gbit | 16 | FC/FCR/FCIP | 1Gbit | 2 | |

| Name | Vendor | Class | Port Speed | Port Count | Port Type | Ethernet Port Speed | Ethernet Port Count | Vendor Part Number |
|--|---------|----------------|----------------|-------------|-------------|---------------------|--------------------------|--------------------|
| HP StorageWorks DC SAN Director Switch Multiprotocol Extension Blade | Brocade | Router-Gateway | 8Gb/s (FC/FCR) | 12 (FC/FCR) | FC/FCR/FCIP | 1Gb/s and 10Gb/s | ten 1Gb/s and two 10Gb/s | FX8-24 |
| HP StorageWorks Multi-protocol RouterBlade FR4-18i | HP | Router-Gateway | 4Gbit | 16 | FC/FCR/FCIP | 1Gbit | 2 | |
| HP StoreFabric Enhanced Multiprotocol Extension Blade | Brocade | Router-Gateway | 8Gb/s (FC/FCR) | 12 (FC/FCR) | FC/FCR/FCIP | 1Gb/s and 10Gb/s | ten 1Gb/s and two 10Gb/s | FX8-24E |

| Path Management (9) | | | |
|------------------------------------|----------|-----------|--------------------|
| Name | Vendor | Category | Software Version |
| Native Device Mapper | Red Hat | Multipath | |
| Veritas DMP (Dynamic Multipathing) | Symantec | Multipath | 4.1 |
| Veritas DMP (Dynamic Multipathing) | Symantec | Multipath | 5.0 |
| Veritas DMP (Dynamic Multipathing) | Symantec | Multipath | 5.0 MP3 |
| Veritas DMP (Dynamic Multipathing) | Symantec | Multipath | 5.0 MP4 |
| Veritas DMP (Dynamic Multipathing) | Symantec | Multipath | 6.0 |
| Veritas DMP (Dynamic Multipathing) | Symantec | Multipath | 5.1 SP1 RP2 |
| Veritas DMP (Dynamic Multipathing) | Symantec | Multipath | 5.1 SP1 PR2 RP2 P2 |
| Veritas DMP (Dynamic Multipathing) | Symantec | Multipath | 6.1 |

Notes:

General Path Management (9) Notes:

- 1) Symantec SF5.0 MP3 RP2 is the minimum version required to support Symantec Storage Foundation 3PAR Thinly Provisioned Virtual Volume space reclamation.
- 2) For Veritas VCS - SF5.1GA is not supported, SF5.1SP1RP2 is the minimum required version of SF5.1 for support.
- 3) Symantec/Veritas Storage Foundation (VxDMP/VCS) is only supported in a FC-Fabric attach (FC-switched) configuration.
- 4) List of Device Mapper versions:
 - 4a) RHEL 5 U1: device-mapper-1.02.20-1.el5, device-mapper-multipath-0.4.7-12.el5
 - 4b) RHEL 5 U2: device-mapper-1.02.24-1.el5, device-mapper-multipath-0.4.7-17.el5
 - 4c) RHEL 5 U3: device-mapper-1.02.28-2.el5, device-mapper-multipath-0.4.7-23.el5
 - 4d) RHEL 5 U4: device-mapper-1.02.32-1.el5, device-mapper-multipath-0.4.7-30.el5_4.4
 - 4f) RHEL 5 U5: device-mapper-1.02.39-1.el5, device-mapper-multipath-0.4.7-34.el5
 - 4g) RHEL 5 U5: device-mapper-multipath-0.4.7-42.el5, Achieved by adding a patch
 - 4h) RHEL 5 U6: device-mapper-1.02.55-2.el5, device-mapper-multipath-0.4.7-42.el5
 - 4i) RHEL 5 U7: device-mapper-1.02.63-4.el5, device-mapper-multipath-0.4.7-46.el5
 - 4j) RHEL 5 U8: device-mapper-1.02.67-2.el5, device-mapper-multipath-0.4.7-48.el5
 - 4k) RHEL 5 U9: device-mapper-1.02.67-2.el5, device-mapper-multipath-0.4.7-54.el5