



BROADCOM NX1 Linux Driver Installation Guide

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BROADCOM NX1 Linux Driver



Product Information

This product is an adapter that is used for upgrading the firmware of certain devices. It supports the N41T OCP adapter and has compatibility with the BCM95719N1905C.vpd version. The adapter can be identified using the MAC address or device name.

Product Usage Instructions

1. Select the appropriate adapter for the firmware upgrade.
2. Execute the following command to verify the contents of the NVM directory: `dir`
3. If needed, upgrade the VPD for the N41T OCP adapter using the following command: `upgrade -vpd BCM95719N1905C.vpd`
4. If a warning message stating "REGION_W does not exist" appears, ignore it.
5. To exit the firmware upgrade utility, execute the command: `q`
6. **Note:** Commands can be executed in one-line command mode using the MAC address or device name. For example: `lnwfwupg E43D1A6151D8 dir lnwfwupg E43D1A6151D8 upgrade -bc ee5719c1.47`

On NX1 Linux driver install steps, refer to the README.TXT under the Linux driver tar file.

Updating the Firmware Components Manually on Linux

- Provides instructions for manually updating the firmware on Broadcom Gigabit Ethernet network adapters for Linux
- Download the Linux firmware upgrade utility and the Firmware images file from the corresponding Broadcom Gigabit Ethernet Adapter page 'Downloads' -> 'Firmware'

To update the adapter firmware on Linux:

1. Install the Broadcom management application programming interface for Linux – `bmapilnx rpm -ivh bmapilnx-226.0.2-0.x86_64.rpm`
2. Install the Linux firmware upgrade utility `rpm -ivh lnxfwupg-226.0.3-1.x86_64.rpm` (if no older version of `lnxfwupg` was installed in the system) (or) `rpm -Uvh lnxfwupg-226.0.3-1.x86_64.rpm` (Update, if already older version `lnxfwupg` was installed)
3. List the Broadcom Gigabit Ethernet adapters using the following command: `lnxfwupg`
4. **Select the adapter**

```
[root@dhcp-10-123-78-152 cs956993]# lnxfwupg
Broadcom Network Controller Firmware Upgrade Utility for Linux v226.0.3
Initializing...

C Brd      MAC      Drv      Name
-----
0 165F B02628E84362 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (eno33)
1 165F B02628E84363 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (eno34)
2 165F B02628E84364 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (eno35)
3 165F B02628E84365 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (eno36)
4 165F F40270CC28D6 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (eno1)
5 165F F40270CC28D7 Yes NetXtreme BCM5720 Gigabit Ethernet PCIe (eno2)
6 1657 000AF79142E0 Yes NetXtreme BCM5719 Gigabit Ethernet PCIe rev 01 (ens7f0)
7 1657 000AF79142E1 Yes NetXtreme BCM5719 Gigabit Ethernet PCIe rev 01 (ens7f1)
8 1657 000AF79142E2 Yes NetXtreme BCM5719 Gigabit Ethernet PCIe rev 01 (ens7f2)
9 1657 000AF79142E3 Yes NetXtreme BCM5719 Gigabit Ethernet PCIe rev 01 (ens7f3)
0:>
```

5. All the Firmware components are available in the corresponding folders in the downloaded Firmware image file.

Use

Use the correct file to upgrade the respective firmware component as shown below:

The following example shows how to upgrade each firmware component on the N41T OCP adapter.

- Upgrade Boot Code using the following command: `upgrade -bc ee5719c1.47`
- Upgrade EFI and PXE using the following command: `upgrade -mba 5719efipxe.bin`
- Upgrade CCM using the following command: `upgrade -ccm ccm2240.155`
- Upgrade NCSI Management firmware using the following command: `upgrade -mgmt nx1ncsi1.544.bin`
- Upgrade iscsi boot code using the following command: `upgrade -ib iboot2140.0`
- Verify the NVM directory contents using the following command: `dir`
- upgrade VPD if needed for N41T OCP adapter. `upgrade -vpd BCM95719N1905C.vpd` Ignore warnings message "REGION_W does not exist"
- Exit out of the firmware upgrade utility
- **Note:** commands can be executed in one-line command mode with mac Address or device name to identify the device.

Example:

- `lnxfwupg E43D1A6151D8 dir`
- `lnxfwupg E43D1A6151D8 upgrade -bc ee5719c1.47`

Documents / Resources

the NX1 Linux Driver install steps, refer to the BCM95719N1905C OCP User Guide.
After the steps
Following the previous steps, the driver is installed.
Proceed to the next step to install the driver on the BCM95719N1905C OCP.
To install the driver on the BCM95719N1905C OCP, follow the steps below:
1. Download the driver from the Broadcom website.
2. Extract the driver files.
3. Install the driver on the BCM95719N1905C OCP.
4. Verify the driver installation.
5. Restart the system.
6. Check the driver status.
7. Troubleshoot any issues.
8. Contact Broadcom support for further assistance.

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N41T OCP, BCM95719N1905C, NX1 Linux Driver, NX1, Linux Driver, Driver