

## How do I install DBL Version 5 Linux on a Class D series board?

**Note: Please contact CSPI Support for assistance if required**

**Note: Additional information, please refer to the following documentation:**

The last chapter of the DBL V5 User Guide has details regarding limitations and restrictions of this release. Release Notes: [CHANGES.txt](#)

DBLv5 User Guide: [DBLv5\\_UserGuide.pdf](#)

DBLv5 Reference Manual: [DBLv5\\_API\\_ReferenceManual.pdf](#)

### **Model:**

10G-PCIE3-8D-2S

### **Software:**

DBL Version 5.0.7

### **Operating System:**

Linux

### **Software Installation:**

1. Download the 5.0.7 software release for Linux using one of the following links:

- **Fedore Distributions (RHEL, CentOS):**  
[myri\\_dbl-5.0.7.53814.PHX\\_1ea770d91.rhel.phx-6374.x86\\_64.rpm](#)
- **Debian Distributions (Ubuntu):**  
[myri\\_dbl-5.0.7.53814.PHX\\_1ea770d91.phx-6374.x86\\_64.tgz](#)

2. Download the Phoenix tools package.

- [phx-tools-1.32.tar.gz](#)

3. As root, uninstall any previous versions of CSPI's Myricom software.

- **Fedora Distributions:**  
\$ sudo yum remove myri\_dbl
- **Debian Distributions:**  
\$ sumo rm -r/opt/dbl

4. Install the Tools package

- # tar xzvf phx-tools-1.32.tar.gz

5. Update the firmware to version 2.0.5

```
#cd phx-tools-1.32
#bin/phx-replace-eprom fw-8E-2S-2.0.5. BIN
Preparing to reprogram firmware on unit 0 (3:0.0)
Programming EEPROM with fpga image contained in fw-8E-2S-2.0.5.bin len=16006908
Please do not turn off power while flash is being programmed.
Do you want to continue (enter yes)? Yes
Loading... ##### | 100%
```

Verifying... ##### | 100%

Flash verification succeeded!

Power cycle the system to enable the new firmware.

6. After the programming is complete, you must power-cycle (shutdown) the server. A reboot/restart is not sufficient. When the FPGA is power-cycled it will load the new firmware.
7. Confirm that the new firmware, version 2.0.5, was loaded.

```
#cd phx-tools-1.32
```

```
#bin/myri_info
```

```
Pci-dev at 01:00.0 vendor: product (Rev) =lc09:4258(01)
```

```
    Behind bridge root-port: 00:01.0 8086:0c01 (x8.3/x8.3)
```

```
Myri-10G-PCIE-8E –Link x8
```

```
    Mac=00:60:dd:43:52:f0
```

```
    SN=490333
```

```
    PC=10G-PCIE3-8E-2S
```

```
    PN=09-04669
```

```
    BOM=A
```

```
Firmware:
```

```
    Version 2.0.5
```

8. Install the DBLv5 driver.

- **Fedora Distributions:**

```
$ sudo yum -y install ./myri_dbl-5.0.7.53814.PHX_1ea770d91.rhel.phx-6374.x86_64.rpm
```

```
Building PHOENIX dbl driver for 3.10.0-327.13.1.e17.x86_64 in /opt/dbl/src
```

```
DBL driver in /opt/dbl/sbin
```

```
Created symlink from /etc/systemd/system/default.target.wants/myri_start_stop.service to /etc/systemd/system/myri_start_stop.service.
```

- **Debian Distributions:**

```
$ cd/opt
```

```
$ sudo tar xzvf ./myri_dbl-5.0.7.53814.PHX_1ea770d91.phx-6374.x86_64.tgz
```

```
$ mv myri_dbl-5.0.7.53814.PHX_1ea770d91.phx-6374.x86_64 dbl
```

```
$ cd /opt/dbl
```

```
$ sudo sbin/rebuild.sh
```

```
Building PHOENIX dbl driver for 3.10.0-327.13.1.e17.x86_64 in /opt/dbl/src DBL driver in /opt/dbl/sbin
```

- For Ubuntu servers that use system (15.04+) you can also perform the following steps to start the driver automatically.

```
$ sudo cp/opt/dbl/sbin/myri_start_stop_.service /etc/systemd/system
```

```
$ sudo systemctl enable myri_start_stop.service
```

```
$ sudo systemctl start myri_start_stop.service
```

<b>Revision:</b>	<b>Date:</b>	<b>Change:</b>
1	6/23/2016	Initial Draft
2	7/20/2016	Feedback

