



# Dolphin PXH84x NTB Adapter Firmware Release Note

10<sup>th</sup> October 2020

Version 1.5

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#### 1 Introduction

This release note covers the NTB enabled PXH840, PXH841, PXH843, PXH844 PCIe Gen3 x16-x4 Adapter cards firmware. The firmware consists of PLX EEPROM configuration data and Management processor firmware (STM config). This release note contains a summary of the changes made. Please contact Dolphin for details.

#### 1.1 Firmware versions

The Firmware version is covering the PXH84x STM firmware changes. The firmware can be upgraded using the upgrade\_eeprom utility bundled with eXpressWare.

Firmware version	Release date	Note
8.6		Initial product release
8.10	October 31st 2019	Fixes:
		<ul> <li>Improve stability during Host reboot.</li> </ul>
		Fixed issue reading onboard temperature sensor.
		Fixed wrong Port LED control
8.11	February 21st,	Fixes:
	2020	Fixed issue adjusting the PCIe Prefetch Bar Size.

#### 1.2 EEPROM Versions

The EEPROM version is tracking the PXH84x PLX EEPROM configuration changes. The firmware can be upgraded using the upgrade\_eeprom utility bundled with eXpressWare.

EEPROM version	Release date	Note
5	March 15 <sup>th</sup> 2018	Initial product release
6	October 16 <sup>th</sup> 2018	Fixes:
		<ul> <li>Move upstream DMA channel 1 to an unused port to avoid</li> </ul>
		system crashes on some systems.
7	March 25 <sup>th</sup> 2020	Fixes:
		<ul> <li>Removed capability information set by BIOS (no influence on systems)</li> </ul>
		<ul> <li>Added support for BD version FireFly assignments.</li> </ul>
		Added support for all variants of PXH84x NTB cards
8	June 11 <sup>th</sup> , 2020	Fixes:
		Added LnkCap register to control link speed changes from
		eXpressWare utilities

### 2 Appendix

#### 2.1 How to check Firmware and EEPROM version

The version of the firmware components can be retrieved using the **dis\_diag** tool. This tool is available by installing eXpressWare available from Dolphin. Please see options using –h option. This software is available for both Windows and Linux.

```
2.1.1 Linux platforms
```

```
# cd /opt/DIS/sbin
# ./dis_diag
```

#### 2.1.2 Windows platforms

```
> cd %ProgramFiles%\Dolphin Express PX\Util
> .\dis diag
```

#### 2.1.3 Example output:

```
# dis diag
```

\_\_\_\_\_

Dolphin diagnostic tool -- dis\_diag version 5.6.0 (Mon Mar 19 16:44:17 CET 2018)

```
dis diag compiled in 64 bit mode
```

```
Driver: Dolphin IRM (GX) 5.6.0 Jan 24th 2018 (rev 33fff3a)
```

Date : Thu Mar 22 12:59:28 CET 2018

System : Linux somenode 3.10.0-514.21.1.el7.x86\_64 #1 SMP Thu May 25 17:04:51 UTC 2017 x86 64 x86 64 x86 64 GNU/Linux

.....

Number of configured local adapters found: 1

Adapter 0 > Type : PXH840 Mode : NTB

> Firmware version : 8. > Card revision : BD

#### 2.2 How to contact Dolphin Support

Please contact Dolphin support at <a href="mailto:pci-support@dolphinics.com">pci-support@dolphinics.com</a> if you have any questions or issue.