

Dolphin MXH570 NTB Adapter Firmware Release Note

July 2nd, 2026

Version 1

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1 Introduction

This release note covers the MXH570 and MXH570F PCIe 5.0 x16 NTB Adapter card firmware. The firmware consists of PFX configuration data and the Board Management Controller (BMC) firmware. This release note summarizes the changes.

1.1 Supported topologies

The latest released firmware supports the following NTB / Hot-Add configurations

- Dual Host x16 NTB
- Single Host Hot-Add x16 (Linux and Windows only)

The eXpressWare release notes provide additional information on supported topologies and functionalities.

1.2 BMC firmware versions

The BMC firmware changelog.

Firmware version	Release date	Note
3.6	January 28th, 2026	• Initial support for MXH570
3.7	March 6th, 2026	• Improved CMI stability • Improved cable side PCIe link stability Introduced in eXpressWare 5.25.1
3.8	May 18th, 2026	• Improved logging capabilities • Adjusted yellow color on cable side LED
3.9	June 3rd, 2026	• Fixed regression in 3.8 where fan could fail to start on cold boot Introduced in eXpressWare 5.25.3

1.3 PFX FLASH Versions

The PFX version changelog. Please note that the Dolphin software tools report the PFX FLASH version as the EEPROM version.

PFX Multiconfig version	Release date	Note
1	November 6th, 2025	Initial support
2	January 6th, 2026	• Updated PFX format to MR3 • Fixed critical reset bug
3	March 6th, 2026	• Improved link tuning • Added support for rev B cards Introduced in eXpressWare 5.25.1
4	March 25th, 2026	• Added new configs for hot-add – please consult the MXH570 users guide for details. • Fixed bug with SmartIO Device Lending Introduced in eXpressWare 5.25.2
5	June 4th, 2026	• Improved link stability Introduced in eXpressWare 5.25.3

2 Appendix

2.1 How to check Firmware and EEPROM version

The firmware component versions can be retrieved using the **dis_diag** tool. This information is available by installing eXpressWare 5.23.0 or newer. Please see the options using the –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 MX\Util
>.\dis_diag
```

2.1.3 Example output

```
# dis_diag
================================================================================
  Dolphin diagnostic tool -- dis_diag version 5.23.0 (Mon Oct 12 16:44:17 CET 2020)
================================================================================
dis_diag compiled in 64-bit mode
Driver: Dolphin IRM (GX) 5.23.0 Oct 24th, 2024 (rev 33fff3a)
Date: Mon Oct 12 12:59:28 CET 2024
System: Linux somenode 3.10.0-514.21.1.el7.x86_64 #1 SMP Thu Oct 12 17:04:51 UTC 2024
x86_64 x86_64 x86_64 GNU/Linux

Number of configured local adapters found: 1


Adapter 0 > Type                      : MXH570
            Mode                      : NTB
            NodeId                    : 4
            Serial number             : MXH570-BC-000015
            MXH chip family           : MICROCHIP - PFX GEN5
            MXH chip vendorId         : 0x11f8
            MXH chip device           : 0x4036
            MXH chip revision         : 0x0 (ZA)
            EEPROM version            : 3.9
            EEPROM vendor info        : 0x0000
            Firmware version          : 5
            Card revision             : BC
```

2.2 How to upgrade the firmware

The firmware can be upgraded using the upgrade_eeprom utility bundled with eXpressWare.

2.2.1 Linux platforms

```
# cd /opt/DIS/sbin
# ./upgrade_eeprom.sh --upgrade
```

2.2.2 Windows platforms

Start PowerShell with administrative capabilities (Press Windows+X, select Windows PowerShell (Admin))

```
PS > cd "${env:ProgramFiles}\Dolphin Express MX\Util"
PS > Set-ExecutionPolicy AllSigned -Scope Process
PS > .\upgrade_eeprom.ps1 --upgrade
```

Please carefully review the output from the upgrade utility.

A complete system power cycle (including AuxPower removal) is required. Please verify that the firmware upgrade was successful after the system is powered on again, following the steps found in the section. 2.1 How to check Firmware and EEPROM version above.

2.3 How to contact Dolphin Support

For support, please contact Dolphin via the Jira Service Management portal: www.dolphinics.com/csp.