Dolphin Interconnect Solutions

MXS924 Management version 1.6.0

Release note

24ᵗʰ June 2022

Table of Contents

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Introduction

This document describes the process of upgrading the MXS924 Management system. Additional information can be found in the MXS924 Users Guide available at www.dolphinics.com/products/MXS924.html.

Login and Passwords

Some links in this document will bring you to Dolphins web download section. Please use the username and password you normally use to download Dolphins eXpressWare software. If you don't know the username and password, please register at www.dolphinics.com/mx or www.dolphinics.com/px depending on the type of PCIe card you are using with the MXS924 switch.

Revision History

The MXS924 hardware and firmware revision history.

Hardware

Revision	Note
AB	First shipping version
BB	Volume production version

Management software versions

Management version	Note
1.6.0	First shipping version

MXS924 Management release 1.6.0 content:

Component	Version
Management version	1.6.0
OS	Ubuntu 18.04.5 LTS
Kernel	5.4.3-20.04
PFX firmware	4.0
Server version	1.5.0
GUI version	1.5.0
MCU firmware (STMs)	8.14

Supported configurations

The MXS924 is a general building block to create various types of PCI Express networks. The switch ships with firmware supporting some basic configurations:

Mode	Configuration Name	Configuration support	Minimum Required software
NTB Single	NTB 6 port x16	6 x16 NTB ports	eXpressWare 5.19.2
NTB Single	NTB 12 port x8	12 x8 NTB ports	eXpressWare 5.19.2
NTB Single	NTB 24 port x4	24 x8 NTB ports	eXpressWare 5.19.2
Transparent	Transparent 1x16 upstream, 5x16 downstream	One x16 upstream, 5 x16 downstream	No software required
Transparent	Transparent 1x16 upstream, 10x8 downstream	One x16 upstream, 10 x8 downstream	No software required
D-Switch	D-Switch 6 Hosts x16, 256 MB BAR	Six x16 NTB ports	eXpressWare 5.19.2
D-Switch	D-Switch 6 Hosts x16, 256 MB BAR	Eight x16 NTB ports	eXpressWare 5.19.2
D-Switch with Transparent downstream ports	D-Switch 5 Hosts x16, 256 MB BAR, 1 downstream port	Five x16 NTB ports + 1 Transparent Downstream Port	eXpressWare 5.19.2
D-Switch with Transparent downstream ports	D-Switch 5 Hosts x16, 512 MB BAR, 1 downstream port	Five x16 NTB ports + 1 Transparent Downstream Port	eXpressWare 5.19.2
D-Switch with Transparent downstream ports	D-Switch 5 Hosts x16, 1 GB BAR, 1 downstream port	Five x16 NTB ports + 1 Transparent Downstream Port	eXpressWare 5.19.2
D-Switch with Transparent downstream ports	D-Switch 5 Hosts x16, 32 GB BAR, 1 downstream port	Five x16 NTB ports + 1 Transparent Downstream Port	eXpressWare 5.19.2

Please consult the software release note for the appropriate adapter card for additional details. Support for larger configurations will be supported in the future, please contact Dolphin for more information.

NTB configurations PXH820, PXH830

If you are using the MXS924 with PXH820 or PXH830 cards, please download the *appropriate Switch, adapter, and Software Users Guides* from www.dolphinics.com/px

Transparent configurations PXH822, PXH832

If you are using the MXS924 with the PXH822 or PXH832 card, Please download the *appropriate Switch and adapter Users Guides* from www.dolphinics.com/px

NTB configurations MXH930, MXH830

If you are using the MXS924 with MXH930 or MXH830 cards, please download the *MXS924, MXH930, MXH830 and Software Users Guides* from www.dolphinics.com/mx

Transparent configurations MXH932, MXH832, MXH833

If you are using the MXS924 with the MXH932, MXH832 or MXH833 card, Please download the *appropriate Switch and adapter Users Guides* from www.dolphinics.com/mx

Supported cables

The current firmware release supports maximum 2 meter PCIe copper cables. Longer copper cables and Active Optical Cables (AOC) is currently not supported. Please contact Dolphin for more information.

Dolphin eXpressWare

For more information on NTB clustering and Dolphins eXpressWare software, please visit

www.dolphinics.com/software

Dolphin technical support

Please contact Dolphin via pci-support@dolphinics.com if you have any questions or issues.

Upgrade instructions

There is currently no new firmware available for the MXS924. A new version of this release note with upgrade instructions will be issued once firmware is released.