BridgeX® Firmware fw-BridgeX

Rev 8.3.3160

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1 Introduction

These are the release notes for the BridgeX® gateway firmware, fw-BridgeX Rev 8.3.3160. This firmware supports the following protocols:

- Ethernet over InfiniBand (EoIB)
- Fibre Channel over Ethernet (FCoE)
- Fibre Channel over InfiniBand (FCoIB)
- Ethernet to Ethernet (PHyX®)

Note: After burning the new firmware, reboot your system to activate the new firmware. Failing to do so will result in an error when running the RUN_FW command.

2 Firmware fw-BridgeX Compatibility

Firmware fw-BridgeX Rev 8.3.3160 is compatible with:

- *BridgeX Programmer's Reference Manual (PRM),* Rev 0.90 or later
- *Mellanox BridgeX Management (BXM)* software version 1.3.6-0

3 Changes and New Features

3.1 BridgeX Firmware v8.3.3160

BridgeX firmware v8.3.3160 does not contain any new changes/features.

3.2 BridgeX Firmware v8.3.3000

- Added VL separation support
- Added PhyX® command interface
- Added ARP proxy lookup mode
- Added anti-spoofing support for multicast Packets
- Added RSS configuration
- Made Ethernet link change events configurable
- Added Ethernet link change events support in managed PhyX® mode
- Added link policy reflection in PhyX® mode
- Added module rate select configuration in Fibre Channel port (access by i2c or GPIO).
- Added external port module state change
- Added port drop counters
- Added counters per priority port
- Added support to XFI detection in the parallel detect.
- Added reset counters policy
- Added MTU configuration
- The chips are now presented as 2 port IB with a single node_guid

4   Bug Fixes

Table 1 - Bug Fixes

Index	Issue	Description	Found in FW Version	Fixed in FW Version
1.	Cable plugging issue	Possible link failure upon cable plugging.	8.3.0000	8.3.3160
2.	Device link up issues	The device might link up in SDR vs. DDR capable devices.	8.3.0000	8.3.3160
3.	SGMII link issues	Upon protocol change the SGMII link might fail.	8.3.0000	8.3.3160

5 Known Issues

The following table describes known issues and possible workarounds.

Index	Description	Possible Workaround
1.	Fibre Channel link resets in apha state.	
2.	Dcbx is not supported in this version.	
3.	The firmware does not indicate the actual capability of the Fibre Channel module speed.	
4.	The FCoE protocol indicator LEDs of external ports is not flouncing.	
5.	Mapping of sl2vl can be performed only when the IB logical link is down.	