



## *Dismantling Guide*

***PNs: MBX1020, MBX5020, MBX9020***

***Rev. 1.0***



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## Revision

**Table 1: Revision**

Revision	Date
1.0	Oct. 2010

## Preface

This manual is intended as a reference for dismantling MBX[159]020 gateway systems in preparation of meeting the requirements of WEEE recycling.  
Intended Audience

This manual is intended for technicians who dismantle the switch systems as a reference for WEEE recyclers.

Mellanox Technologies emphasizes the importance of carefully following all procedures described in this guide to prevent personal injury.

## Switch OPNs

This document is valid for all of the switch OPNs listed in Table 2.

**Table 2: Switch OPNs for this Procedure**

MBX1020-1SFC	MBX1020-1SFR
MBX5020-1SFC	MBX5020-1SFR
MBX9020-1SFC	MBX9020-1SFR

## Policy Statement

Mellanox Technologies recognizes the importance of developing connectivity solutions that not only enable our customers to optimize their data centers performance, but also protect the environment and ensure that future generations enjoy its bounties. Mellanox Technologies is committed, therefore, to meeting the requirements of the European Union's WEEE (waste electrical and electronic equipment) directive. The directive mandates how the materials used in electrical and electronic equipment must be disposed of.

Mellanox Technologies has worked closely with its suppliers to eliminate hazardous materials from its Products. There are instances, however, where it has not proven possible to completely eliminate all hazardous materials. Consequently, all applicable products are labeled with a crossed out "wheelie" bin symbol, indicating that special care must be applied to their disposal and / or recycling.

## 1 Dismantling Instructions

This guide provides detailed instructions for dismantling the Mellanox gateway systems. Follow the instructions in the order they are presented.

### 1.1 Gateway Systems - General

The gateway system complies with RoHS directive under the exemptions known as RoHS-5 and RoHS-6.

The last digit of the product part number represents the RoHS type.

For example:

MBX1020-1SFC — C = RoHS-5

MBX1020-1SFR — R = RoHS-6

The gateway system is comprised of:

- Main Board
- CPU board with battery
- Management Board
- Fan unit
- Harness
- Power supply unit
- Cover

### 1.2 General Preparations

The gateway system is assembled using Philips screws, and handles with snap in latches for modules.

To disassemble the gateway system parts you will need a small Philips screwdriver.

The pictures displayed in the following pages provide visual guidance explaining how to remove the modules from the mechanical base.

## 2 Extraction of the Modules

### 2.1 Extracting the Power Supply Unit

Figure 1 Power Side of the Gateway

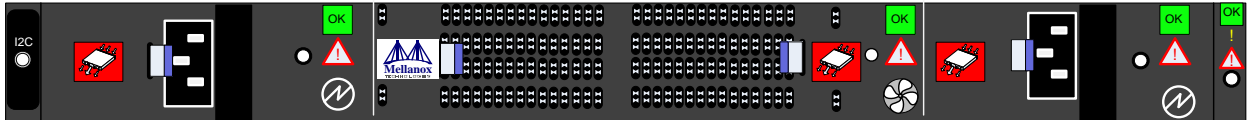
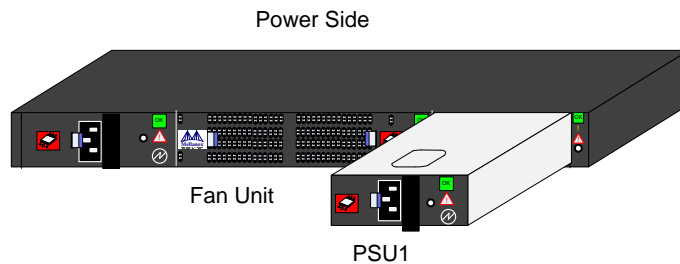


Figure 2 PSU Pulled Out



To extract a PSU:

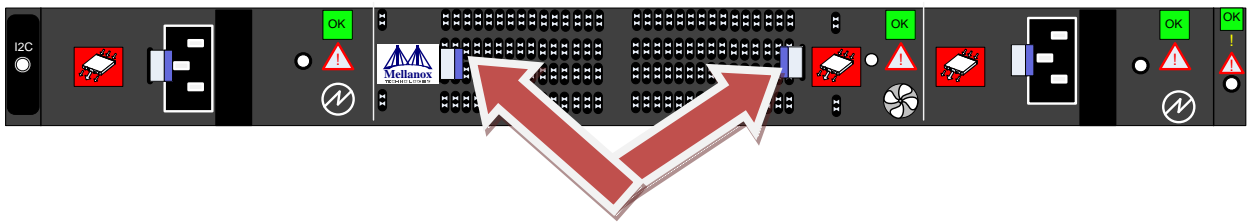
- 1 Remove the power cord from the PSU.
- 2 Grasping the handle with your right hand, push the latch release with your thumb while pulling the handle outward.
- 3 Remove the PSU.
- 4 If the Gateway has two PSUs repeat steps 1-3 to remove the second PSU.
- 5 For the blank cover on the left side of the gateway just pull out using the handle.

### 2.2 Extracting the Fan Unit

To extract the Fan Unit

Using two hands, push both latch releases simultaneously while pulling the fan module out of the gateway.

Figure 3 Extracting the Fan Unit



These two latches must be pushed towards each other at the same time while the module is pulled out.

## 2.3 Removing the Cover

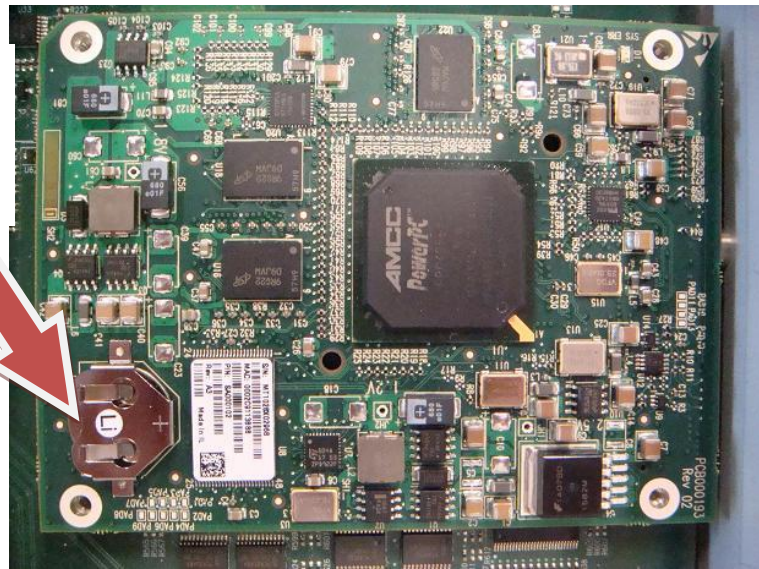
Unscrew all of the screws from the top and sides of the cover and remove the cover.

## 2.4 Extracting the Battery

In all managed Mellanox systems there is a CPU board and / or Management board, there is a: COIN TYPE LITHIUM BATTERY CR1620 3V 75MA.

**Figure 4** Remove Battery

Remove the  
battery



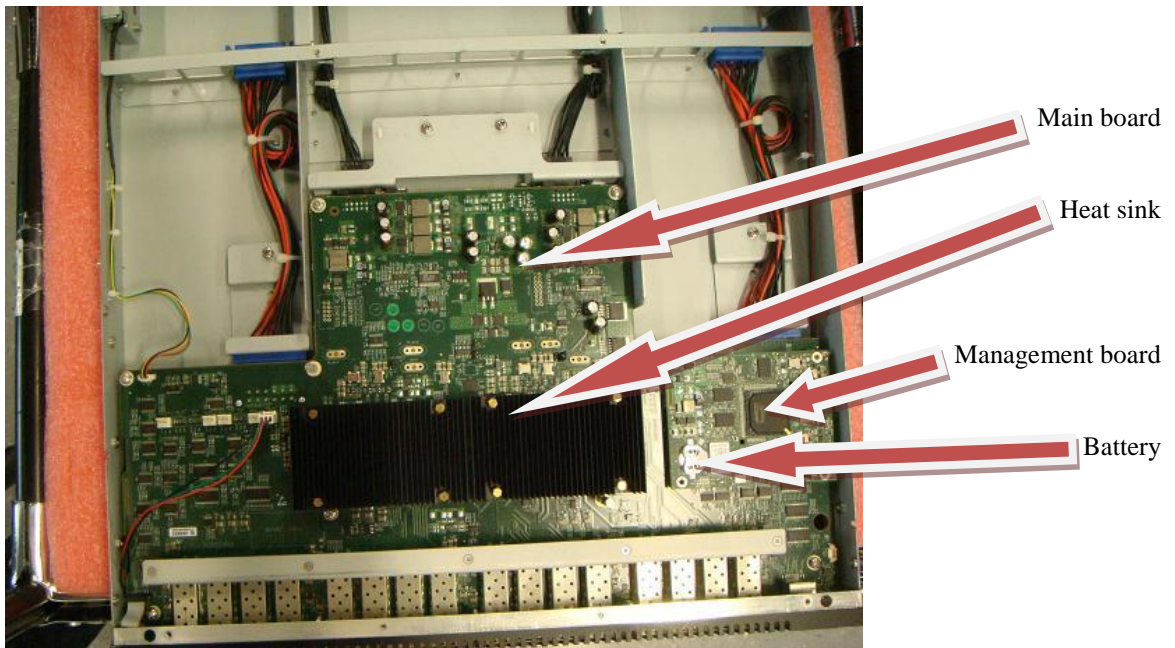
Remove the battery before removing the board.

## 2.5 Extracting the Board

- 1 Unscrew the Heat-sink screws to remove the Heat-sink.
- 2 Unscrew the Philips screws and remove spacers to remove the Main board and CPU Board.



**Figure 5 Remove Heat Sink and Boards**



- 3 Unscrew the Bridge screws to remove the bridge. See Figure 6.
- 4 Unscrew the Philips screws and remove spacers to remove the Main board and CPU Board.
- 5 Disconnect harness connectors and remove Harness from base.

Figure 6 Main Board with Lockdown Bridge

