



## *Dismantling Guide*

*OPNs: MIS 50[23][015][DQ]*

*Rev. 1.0*

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## Table of Contents

Revision .....	5
Preface.....	5
Switch OPNs.....	5
Policy Statement .....	6
1 Dismantling Instructions .....	7
1.1 InfiniBand switch system systems - General .....	7
1.2 General Preparations .....	7
1.3 Standard and Short InfiniBand Switch Systems .....	7
1.4 Power Supply Unit Extraction .....	8
1.5 Fan Unit Extraction.....	9
1.6 Cover Extraction .....	9
1.7 Battery Extraction .....	9
1.8 Board Extraction .....	10
1.9 Harness Extraction .....	10

## List of Tables

Table 1: Revision .....	5
Table 2: Switch OPNs for this Procedure .....	5

## Table of Figures

Figure 1 Short vs. Standard Switch .....	8
Figure 2 Power Side of the Switch.....	8
Figure 3 PSU Pulled Out.....	8
Figure 4 Extracting the Fan Unit.....	9
Figure 5 Remove Battery .....	9
Figure 6 Remove Heat Sink and Boards .....	10
Figure 7 Remove Harnesses .....	10

## Revision

**Table 1: Revision**

Revision	Date
1.0	Oct. 2010

## Preface

This manual is intended as a reference for dismantling MIS 50[23] [015][QD] switch 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**

MIS5035Q-2SFC	MIS5035Q-1SFC	MIS5035Q-1BFC	MIS5035D-1SFC
MIS5035D-1BFC	MIS5031Q-1SFC	MIS5031Q-1BRC	MIS5031Q-1BFC
MIS5031D-1BRC	MIS5031D-1BFC	MIS5030Q-2SFC	MIS5030Q-2BRC
MIS5030Q-1SFR	MIS5030Q-1SFC	MIS5030Q-1BRC	MIS5030Q-1BFC
MIS5030D-2SFC	MIS5025Q-2BRC	MIS5025Q-1SRC	MIS5025Q-1SFC
MIS5025Q-1BRC	MIS5025Q-1BFC	MIS5025D-1SFC	MIS5025D-1BRC

## 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 chapter provides detailed instructions for dismantling the InfiniBand switch Standard and Short systems. Follow the instructions in the order they are presented.

### 1.1 InfiniBand switch systems - General

The InfiniBand switch system complies with the 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

MIS5030Q-2BRC — C = RoHS-5

MIS5030Q-1SFR — R = RoHS-6

InfiniBand switch systems are comprised of:

- Main Board
- CPU board with battery
- Fan unit
- Harness
- Power Supply Unit (PSU)
- Cover

### 1.2 General Preparations

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

To disassemble the InfiniBand switch system 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.

### 1.3 Standard and Short InfiniBand Switch Systems

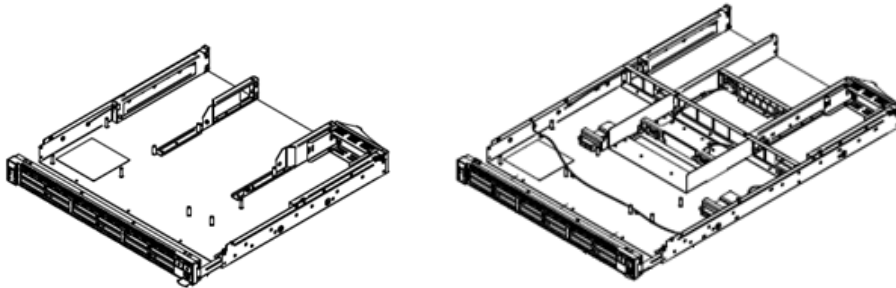
There are two types of InfiniBand switch systems.

- Standard
- Short

The difference is in the length of the mechanical base and cover.

In the following pictures and drawings you will see the difference.

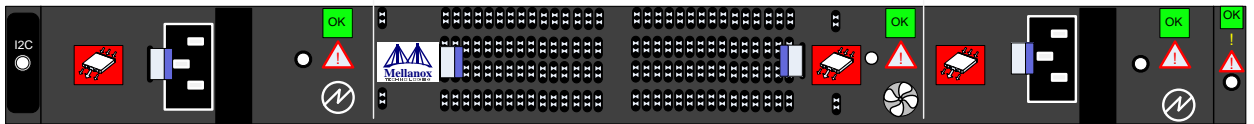
**Figure 1 Short vs. Standard Switch**



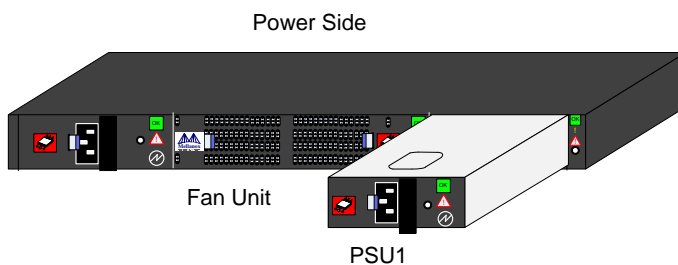
For InfiniBand switch systems (standard and short), all parts are the same regarding the disassembly process. The only difference is that the standard version of the switch has several extra harnesses that connect the board to the fan and power modules.

## 1.4 Power Supply Unit Extraction

**Figure 2 Power Side of the Switch**



**Figure 3 PSU Pulled Out**



To extract a PSU:

1. Remove the power cord from the power supply unit.
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. Repeat the procedure to the second PSU if there is one.
5. If there is only one PSU remove the blank cover.

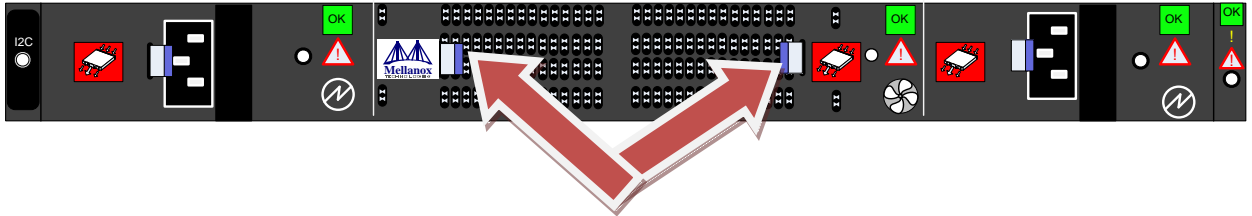


## 1.5 Fan Unit Extraction

To extract a Fan Unit

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

Figure 4 Extracting the Fan Unit



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

## 1.6 Cover Extraction

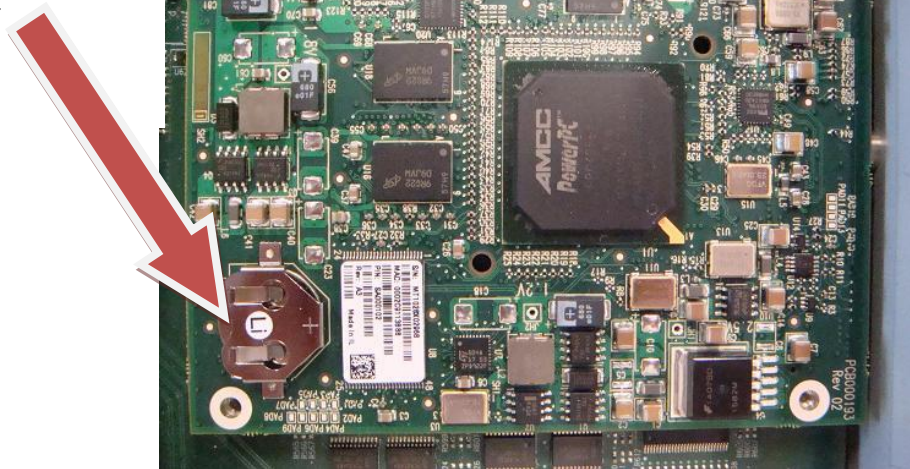
1. Unscrew all of the screws from the top and sides of the cover and remove the cover.

## 1.7 Battery Extraction

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 5 Remove Battery

Remove the battery

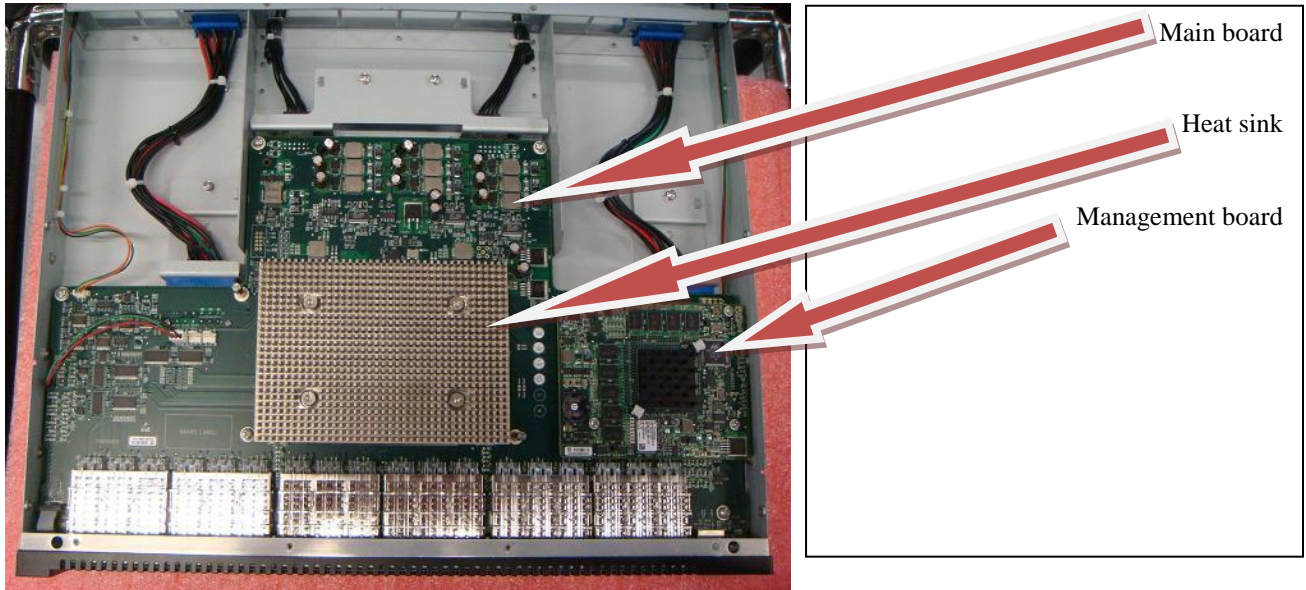


1. Remove the battery before removing the board.

## 1.8 Board Extraction

1. Disconnect the harness connectors from the boards.
2. Unscrew the Heat-sink screws to remove the Heat-sink.
3. Unscrew the Philips screws and remove spacers to remove the Main board and CPU Board.

Figure 6 Remove Heat Sink and Boards



## 1.9 Harness Extraction

Disconnect harness connectors and remove Harnesses from the base.

Figure 7 Remove Harnesses

