



Dismantling Guide

OPNs MIS5024, MIS5023
Rev. 1.0



NOTE:

THIS INFORMATION IS PROVIDED BY MELLANOX FOR INFORMATIONAL PURPOSES ONLY AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL MELLANOX BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS HARDWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.



Mellanox Technologies, Inc.
350 Oakmead Parkway Suite 100
Sunnyvale, CA 94085
U.S.A.
www.mellanox.com
Tel: (408) 970-3400
Fax: (408) 970-3403

Mellanox Technologies Ltd
PO Box 586 Hermon Building
Yokneam 20692
Israel
Tel: +972-4-909-7200
Fax: +972-4-959-3245

© Copyright 2011. Mellanox Technologies, Inc. All Rights Reserved.

Mellanox®, BridgeX®, ConnectX®, InfiniBlast®, InfiniBridge®, InfiniHost®, InfiniRISC®, InfiniScale®, InfiniPCI®, PhyX® and Virtual Protocol Interconnect® are registered trademarks of Mellanox Technologies, Ltd. CORE-Direct and FabricIT are trademarks of Mellanox Technologies, Ltd.

All other marks and names mentioned herein may be trademarks of their respective companies.

Contact Information

Should you have any questions regarding our Products, please feel free to contact us directly or contact our local distributors.

Mellanox Technologies Call Center
Tel: +
Email: Mellanox_WEEE@mellanox.com

Table of Contents

Revision	4
Preface.....	4
Intended Audience	4
Switch OPNs.....	4
Policy Statement	5
1 Dismantling Instructions.....	6
1.1 InfiniBand switch systems - General	6
1.2 General Preparations	6
1.3 Cover.....	6
1.4 Extracting the Power Supply Unit	7
1.5 Extracting the Fan Unit.....	9
1.6 Extracting the Board	11

List of Tables

Table 1: Revision	4
Table 2: Switch OPNs for this Procedure	4

List of Figures

Figure 1 Remove the Cover.....	7
Figure 2 PSU Location	8
Figure 3 PSU Screw Locations	8
Figure 4 Fan Location	9
Figure 5 Fan Bottom Side Screw Locations.....	10
Figure 6 Fan Top Side Screw Locations	10
Figure 7 Main Board Removal.....	11
Figure 8 Main Board Screws.....	12

Revision

Table 1: Revision

Revision	Date
1.0	January 2011

Preface

This manual is intended as a reference for dismantling MIS 502[34]Q 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

MIS5023Q-1BFR MIS5023Q-1BRR MIS5024Q-1BFR MIS5024Q-1BRR

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 systems. Follow the instructions in the order they are presented.

1.1 InfiniBand switch systems - General

The InfiniBand switch system complies with RoHS directive under the exemption known as RoHS-6.

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

For example

MIS5024Q-1BRR — the last R = RoHS-6

InfiniBand switch system systems are comprised of:

- Main Board
- Fan unit
- Harnesses
- Power Supply Unit (PSU)
- Cover

1.2 General Preparations

The InfiniBand switch system is assembled using Philips screws.

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 Cover

Unscrew the rear-side screws, and slide the cover to the back for opening it.

Figure 1 Remove the Cover



1.4 Extracting the Power Supply Unit

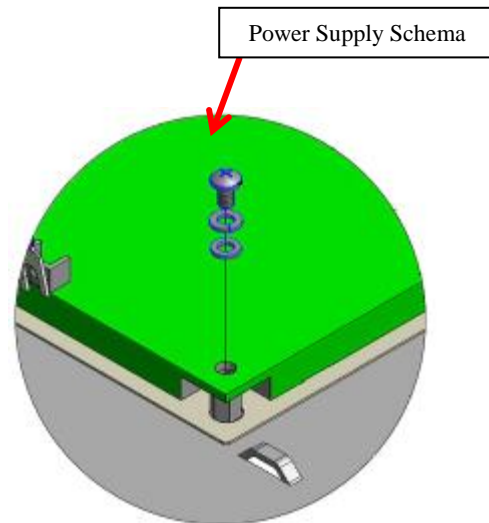
The power supply unit is located on the rear side of the switch unit.

Disassemble the 4 screws attaching the Power Supply to its mechanical base.

Figure 2 PSU Location



Figure 3 PSU Screw Locations



Screws for disassembling the PS from the base

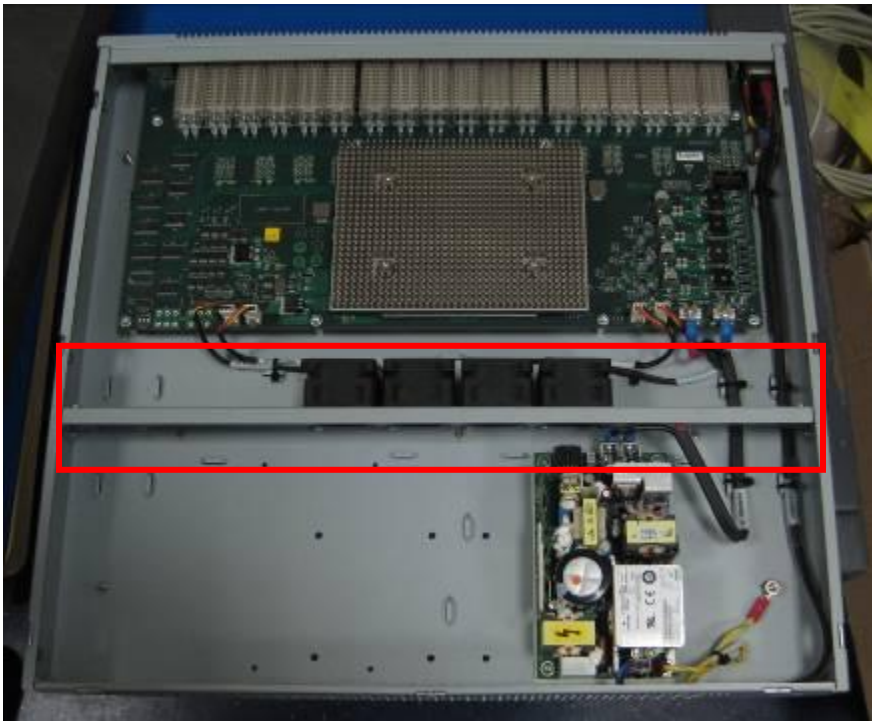
To extract a PSU:

1. Disconnect the ground from the power supply.
2. Disconnect, cut or unscrew the power supply cord from the power supply unit.
3. Unscrew the power supply from the mechanical enclosure.

1.5 Extracting the Fan Unit

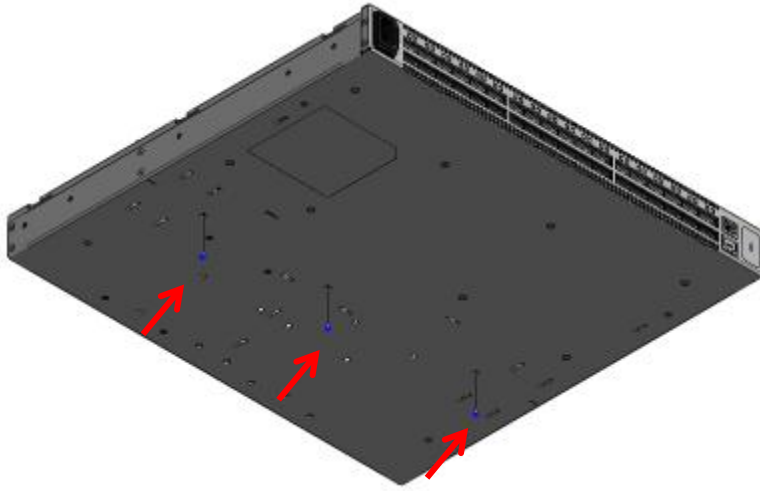
The Fan unit is located in the middle of the system.

Figure 4 Fan Location



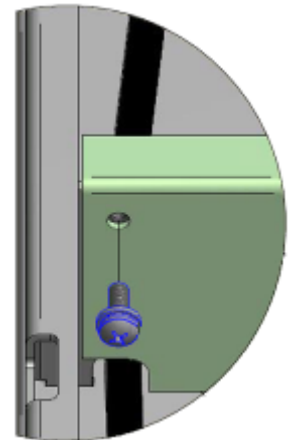
1. Disconnect the harnesses from the fan unit to the board.
2. Disassemble the 3 screws attaching the Fan wall to the bottom of the mechanical enclosure base.

Figure 5 Fan Bottom Side Screw Locations



3. Disassemble the 2 screws attaching the Fan wall to the sides of the mechanical base.

Figure 6 Fan Top Side Screw Locations



4. Remove the fan unit.
5. Disconnect harness tie downs and remove harnesses from the base.

1.6 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.

Figure 7 Main Board Removal



Figure 8 Main Board Screws

