![Mellanox Technologies logo]

Switch-IB™ SB7790
Quick Start Guide

Mechanical Installation

Installing the Switch

Planning the system's placement in the rack

Before mounting the system to the rack, select the way you wish to place the system. Pay attention to the airflow within the rack cooling, connector and cabling options.

While planning how to place the system, consider the two installation options shown in Figure 2, and review the following points:

• Make sure the system air flow is compatible with your installation selection. It is important to keep the airflow within the rack in the same direction.

• Note that the part of the system to which you choose to attach the rails (the front panel direction, as demonstrated in Option 1 or the FRUs direction, as demonstrated in Option 2) will determine the system's adjustable side. The system's part to which the brackets are attached, will be adjacent to the cabinet.

• The FRU side is extractable. Mounting the rack brackets inverted to the FRU side (Option 2), will allow you to slide the FRUs, in and out.
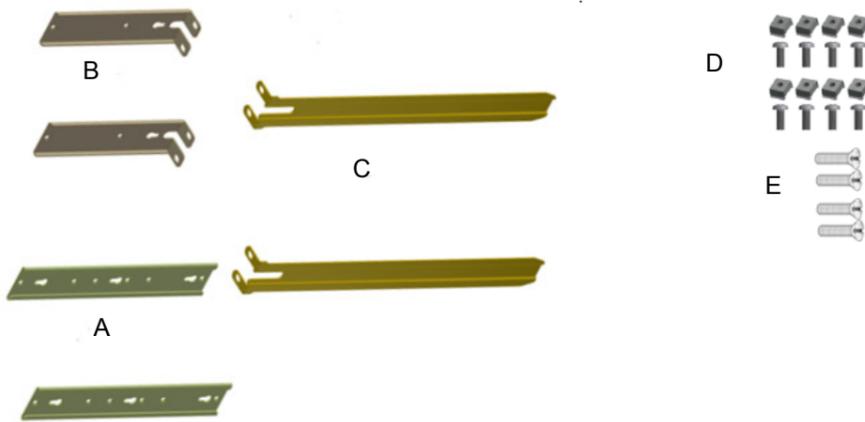
Rack Depth Range
MTEF-KIT-A
Short rack (17"-24") and Standard rack (24"-34")

Rail Kit Components
2x Rack mount rails (A)
2x Rack mount brackets (B)
2x Rack mount blades (C)
8x M6 Standard cage nuts and 8x M6 Standard pan-head Phillips screws (D)
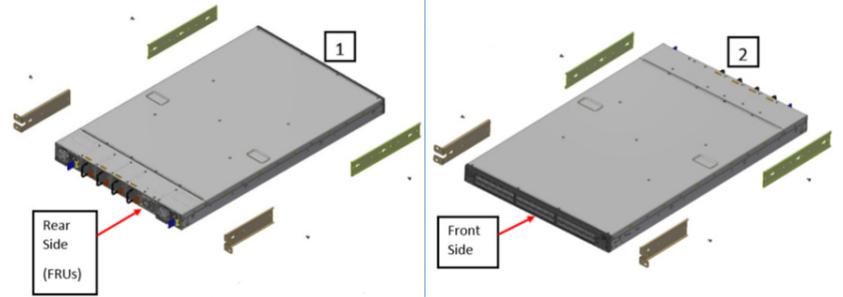4x Phillips100 DEG F.H TYPE-I ST.ST 6-32 X 1/4 screw with a round patch (E)
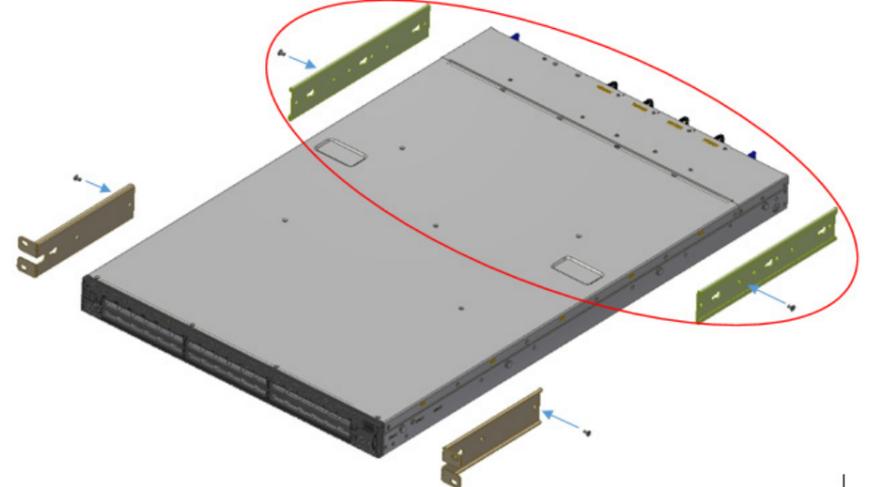

Figure 1: Rail Kit Components

B

C

A

D

E

Doc Number: MLNX-15-4210

Figure 2: Installation Options

1

2

Rear Side (FRUs)

Front Side

1. Attach the left and right rack mount rails (A) to the switch, by gently pushing the switch chassis' pins through the slider key holes, until locking occurs. Secure the chassis in the rails, screwing 2 flat head Phillips screws (E) in the designated points. See Figure 3.

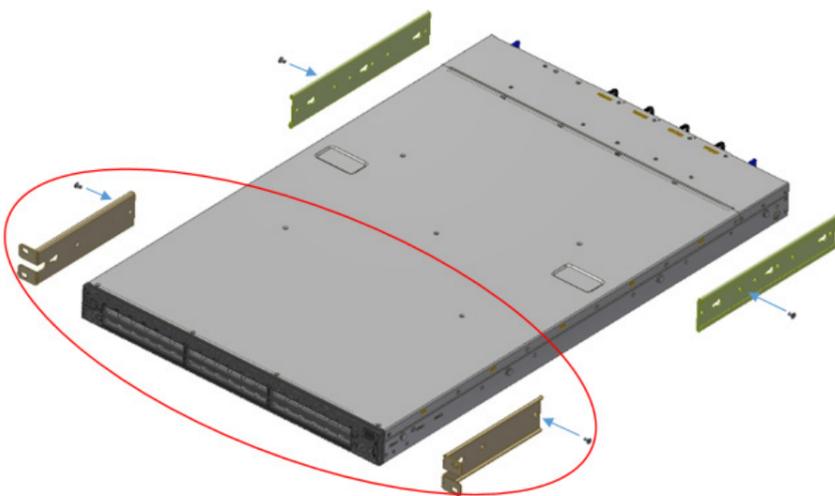*Figure 3: Attaching the Rails to the Chassis*

2. Attach the left and right rack mount brackets (B) to the switch, by gently pushing the switch chassis' pins through the slider key holes, until locking occurs. Secure the system in the brackets by screwing the remaining 2 flat head Phillips screws (E). See Figure 4.

Figure 4: Attaching the Brackets to the Chassis

3. Install 8 cage nuts in the desired 1U slots of the rack: 4 cage nuts in the non-extractable side and 4 cage nuts in the extractable side. Note that while each rack U (unit) consists of three holes, the cage nut should be installed vertically with its ears engaging the top and bottom holes only.

While your installation partner is supporting the system's weight, perform Steps 4-6:

4. Mount the system into the rack enclosure and attach the brackets installed on the system to the rack's posts. Secure the brackets to the rack's posts by inserting four M6 screws in the designated cage nuts. See Figure 5. Do not tighten the screws yet.

5. Slide the two blades into the left and right rails (see Figure 6), and adjust them to fit your rack's depth. Use four M6 screws (D) to fix the blades into the rack. Do not tighten the screws yet.

6. Secure the system in the rack by tightening the 8 screws inserted in Step 4 and Step 5 with a torque of Min 2Nm.

Figure 5: Attaching the Brackets to the Rack

Figure 6: Sliding the Blades in the Rails

Grounding the Switch

1. Make sure that the rack is properly grounded and that there is a valid ground connection between the chassis of the switch and the rack. Test the ground using an Ohm meter.

2. Some national and/or local codes may require IT components to be bonded and externally grounded (not including the power cord ground). You must follow all national and local codes when installing this equipment.

Connecting Switch to Power

1. Plug in the power cables.

2. Check the Status LEDs and confirm that all of the LEDs show status lights consistent with normal operation

3. You can start connecting all of the cables to the switch..

⚠️ Any yellow or red status LEDs are cause for concern and must be dealt with immediately. It can take up to 5 minutes to boot up, during which time the status LED may indicate red.

For full Installation Instructions and the full User Manual go to the Mellanox web page at:
www.mellanox.com > Products > Select your product > Select the document.

Mellanox Tech Support

USA Tel: 408-916-0055 (8:00AM to 5:00 PM - Pacific)
Israel Tel:+972 (0)74 723 7200 (8:00AM to 5:00 PM - Israel)