

**IDENTIFICATION OF VOLATILE
AND NON-VOLATILE STORAGE
AND
SANITIZATION OF SYSTEM
COMPONENTS**

**JUNIPER NETWORKS
SRX380**

**REVISION 1.0
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TABLE OF CONTENTS

1	Introduction	1
1.1	Purpose	1
1.2	Scope	1
2	Equipment Overview.....	1
2.1	Identification of Chassis	1
2.2	Description of Field Replaceable Units (FRU)	2
3	VOLATILE AND NON-VOLATILE MEMORIES	2
3.1	Power Down and Removal of Memoire.....	3
4	System Power Down	3
4.1	Disassembly of the SRX380 Chassis and Identification of NV storage	3
4.2	Follow the assembly procedure in reverse order to assemble the SRX380 Chassis.	8

TABLE OF FIGURES

Figure 2 1: SRX380.....	2
Figure 4 1: PSU FRUs.....	3
Figure 4 2: Top cover screws.....	4
Figure 4 3: Side screws of Top Cover.....	5
Figure 4 5: Locate DIMM and Battery.....	8
Figure 4 6: Locate NV storage (M.2 SSD).....	8
Figure 4 7: Locate NIC internal Firmware Flash and Mainboard EEPROM)....	8
Figure 4 6: Locate CPU-CPLD and Uboot SPI Flash.....	9

1 INTRODUCTION

1.1 Purpose

The purpose of this document is to provide direction to identify and remove all non-volatile (NV) storage from the Juniper Networks SRX380 platform. Non-Volatile (NV) storage is a system memory that can store user data information and system configuration data even when system not powered. Volatile (V) storage is a system memory that only retains data or its contents while system powered but when system powered off or interrupted, its data or contents are immediately lost.

1.2 Scope

This document only addresses the SRX380 platform. While other platforms offered by Juniper Networks may contain similar hardware components, this document only applies to these devices. Furthermore, this document only provides direction for the identification and removal of NV storage components. It does not address destruction procedures for those components. As all the NV storage components used in the SRX380 are commercial off-the-shelf (COTS) components, directions for destruction of those components are left to the governing Department, Agency, or Office.

2 EQUIPMENT OVERVIEW

2.1 Identification of Chassis

Juniper Networks SRX380 Ethernet Switches provide connectivity for high-density environments and scalability for growing networks. These switches can be deployed wherever you need high density of Gigabit Ethernet ports or redundancy. Typically, SRX380 switches are used in large branch offices, campus wiring closets, and data centers. In datacenters, SRX380 switches can be positioned as top-of-rack switches; the top devices in a rack to provide connectivity for all the devices in the rack. Juniper Networks SRX Series Ethernet Switches run Junos OS, which provides Layer2 and Layer3 switching, routing, and security services.

The 20-ports SRX380 switch with gigabit ports SRX380 and provide built-in Ethernet network ports, 0-15 built-in 1G ports, 16-19 built-in 4x10G SFP+ ports Ethernet network ports. Ethernet network ports support 1Gbps, and 10 Gbps speeds. SRX380 is designed to fit in a standard 19" rack.



Figure 2-1: SRX380

2.2 Description of Field Replaceable Units (FRU)

The power supply and transceivers are hot-swappable. You can remove and replace them without powering off the system or disrupting system functions.

None of these components contain NV RAM. All NV RAM is either soldered or installed onto the system board.

3 VOLATILE AND NON-VOLATILE MEMORIES

This section covers the identification of volatile and non-volatile memories on SRX380 system.

Main Board:

Non-volatile devices are listed below.

CONN 23	- M.2 SSD (System storage) – stores user data.
U15, U17	- Uboot (SPI Flash)
U89, U83	- IDEEPROM
U18	- CPU CPLD

Volatile devices are listed below.

U105	- NIC internal firmware flash
CONN13	- DIMM Module
BA1, U9	- RTC battery

3.1 POWER DOWN AND REMOVAL OF MEMORY DEVICES

To ensure that no user data or system configurations remain reside on a SRX380 platform, the following steps must be performed:

1. Power must be removed from the system to clear all volatile storage.
2. Volatile and Non-volatile memory components must be removed from the system board.

Following section provides the instructions on how to remove these components in detail.

4 SYSTEM POWER DOWN

Power down the system by removing any connected power cords from power supply.

4.1 Disassembly of the SRX380 Chassis and Identification of NV storage

The SRX380 does contain NV storages that is replaceable as well as it is soldered to the system board. To access the memory for removal, refer to the following steps:

1. Removing ear-mounts on both left and right side.
2. Remove power supplies Blank PSU, from the system (figure 3-1)
 - a. Move latch towards PSU Handle and Pull PSU out of Chassis.
 - b. Unfasten the captive screws and remove the Blank PSU.



Figure 4-1: PSU FRUs

3. Remove eleven screws on top side (figure 4-2)



Figure 4-2: Top cover screws

(Figure 4-3) Slide and lift to remove the Top cover.



Figure 4-4: Side screws of Top Cover

4. Locate Volatile memory DIMM (CONN13), and Battery (BA1) on the Main Board (figure 4-5)

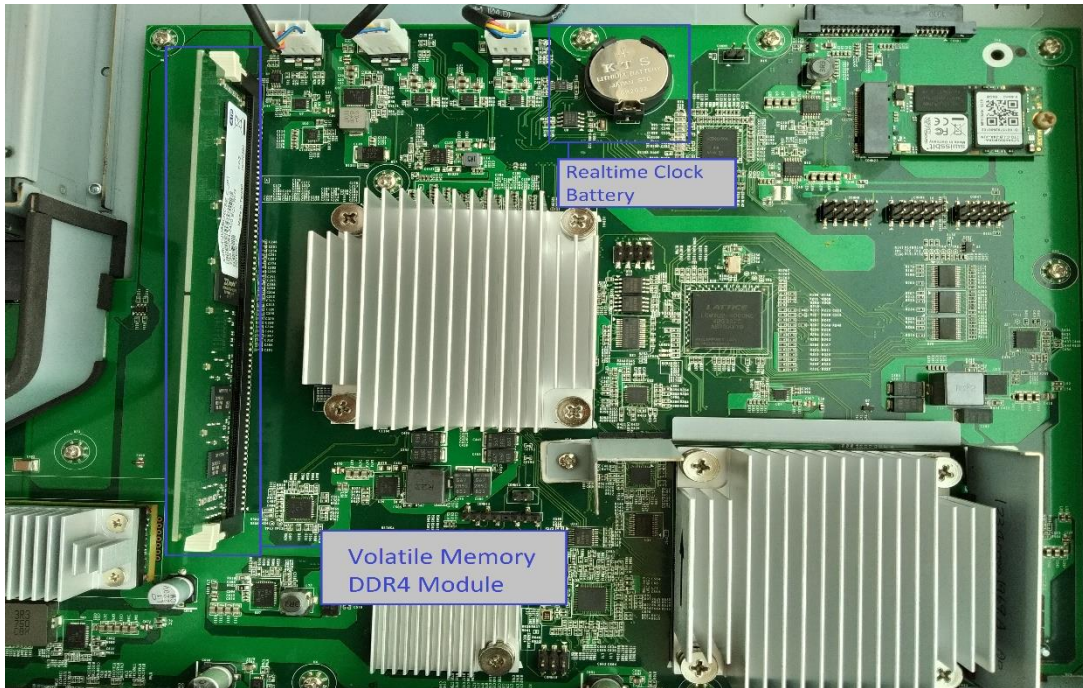


Figure 4-5: Locate DIMM and Battery

5. Locate NON-Volatile storage on Main Board (figure 4-6).



Figure 4-6: Locate NV storage (M.2 SSD)

5. Nic Internal firmware Flash from the Main Board and ID EEPROM Top side (figure 4-7).

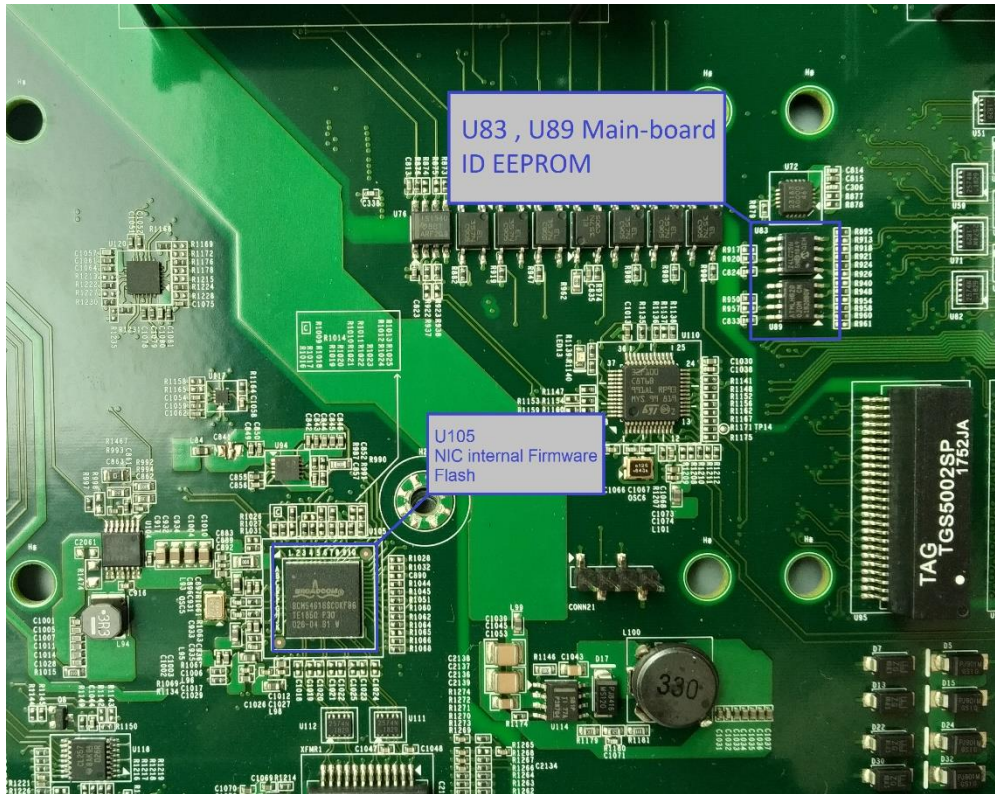


Figure 4-7: Locate NIC internal Firmware Flash and Mainboard EEPROM

6. Locate Uboot SPI FLASH and CPU CPLD from the Main Board Top Side (figure 4-8).

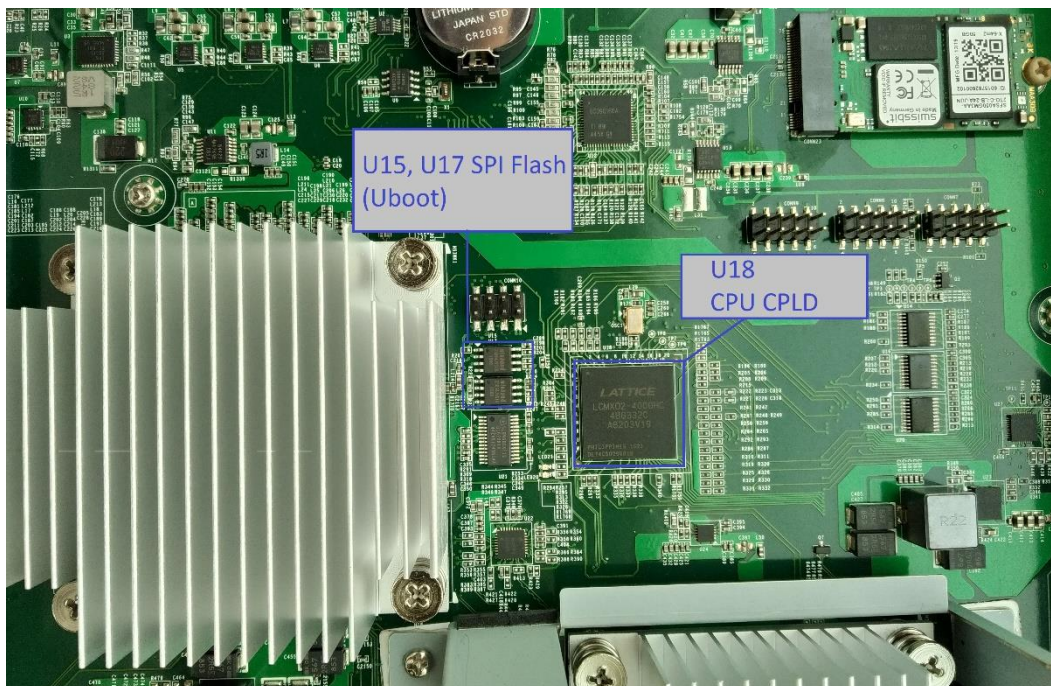


Figure 4.8: CPU-CPLD and Uboot SPI Flash

NOTE : Before removal, ensure J-TAC and the appropriate account team has been notified of your intentions.

- 5 FOLLOW THE ASSEMBLY PROCEDURE IN REVERSE ORDER TO ASSEMBLE THE SRX380 CHASSIS.**