Industrial Networking
Tech Note 11   RAM ®/SN Firmware Upgrade

red lion®

Abstract:

This document provides a step by step procedure defining how to upgrade firmware on a RAM and SN Sixnet® series cellular router.

Products:

Red Lion Controls RAM/SN: 66xx, 68xx, 67xx, 69xx, RAM 9xxx.

Note: This procedure is not suited for RAM 6021.

Use Case: Upgrading Router Firmware
Upgrading firmware of Non LTE models: RAM/SN 66xx, 68xx
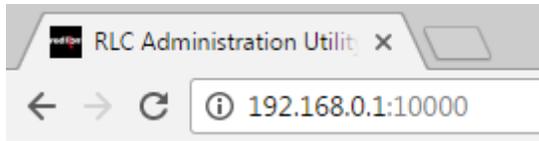Upgrading firmware of LTE models: RAM/SN 67xx, 69xx, RAM 9xxx
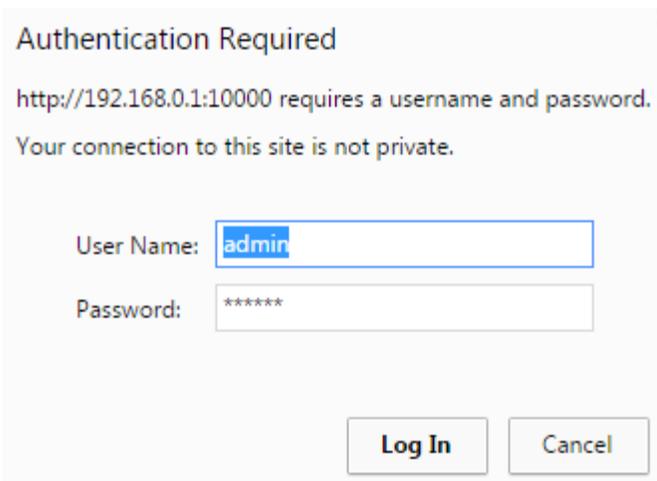
Required Software:

Web Browser

Upgrade firmware for LTE models. RAM/SN 69xx, 67xx, RAM 9xxx
> **Note:** It is strongly recommended to be directly connected (via USB or LAN) to the device. Firmware upgrade on Cellular WAN is not recommended. **This procedure is not suited for RAM 6021.**

1. Download latest firmware from the following link:
   http://www.redlion.net/industrial-wireless-software-firmware

2. Extract the zip file.

3. Log into the RAM Web Browser
   Type the device's LAN/WAN IP, port 10000 into a web browser
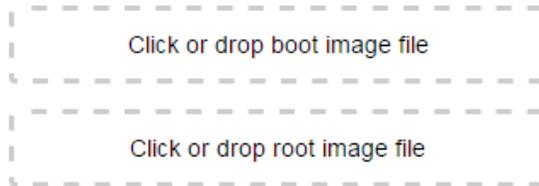

   a. User Name: admin
   b. Password: Last six digits of the device's serial number

4. Navigate to *Admin - Firmware Update*

Firmware Update

Click or drop boot image file

Click or drop root image file

Preserve Current Configuration: Yes   ▾   ❷

5. Select the boot image file. Browse to the extracted zip file and select:
   3.2x_4.2x_sn_reflash\Images\sng25-bootfs.jffs2

6. Select the root image file. Browse to the extracted zip file and select:
   3.2x_4.2x_sn_reflash\Images\sng25-rootfs.jffs2

7. Preserve Current Configuration: Select *Yes* for the device to save its current configuration and restore it after the firmware image is installed. Select *No* for factory default configuration

Firmware Update

sng25-bootfs.jffs2

sng25-rootfs.jffs2

Preserve Current Configuration: Yes   ▾   ❷

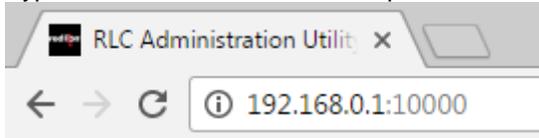8. Click *Install* on the bottom of the screen

Refresh   Install

9. Latest firmware is now uploaded on RAM/SN router. The firmware version can be seen on Home screen of the router configuration. Firmware Version 4.xx applies for LTE models.

red lion ®

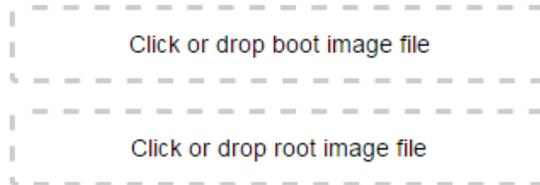**Upgrade firmware for Non LTE models. RAM/SN 66xx, 68xx**
Note: It is strongly recommended to be directly connected (via USB or LAN) to the device. Firmware upgrade on Cellular WAN is not recommended. **This procedure is not suited for RAM 6021.**

1. Download latest firmware from the following link:
   http://www.redlion.net/industrial-wireless-software-firmware

2. Extract the zip file.

3. Log into the RAM Web Browser
   Type the device's LAN/WAN IP, port 10000 into a web browser

   RLC Administration Utilit ✕

   ← → C ⓘ 192.168.0.1:10000

   a. User Name: admin
   b. Password: Last six digits of the device's serial number

4. Navigate to *Admin - Firmware Update*

   # Firmware Update

   Click or drop boot image file

   Click or drop root image file
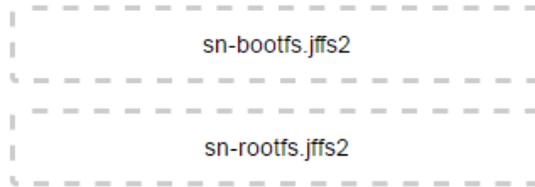
   Preserve Current Configuration: Yes   ▼   ❓

5. Select the boot image file. Browse to the extracted zip file and select:
   3.2x_4.2x_sn_reflash\Images\sn-bootfs.jffs2

6. Select the root image file. Browse to the extracted zip file and select:
   3.2x_4.2x_sn_reflash\Images\sn-rootfs.jffs2

7. Preserve Current Configuration: Select *Yes* for the device to save its current configuration and restore it after the firmware image is installed. Select *No* for factory default configuration

Firmware Update

```
+------------------------------------------+
|              sn-bootfs.jffs2             |
+------------------------------------------+
+------------------------------------------+
|              sn-rootfs.jffs2             |
+------------------------------------------+
```

Preserve Current Configuration: Yes ▾   ❓

8. Click *Install*

Refresh   **Install**

9. Latest firmware is now uploaded on RAM/SN router. The firmware version can be seen on Home screen of the router configuration. Firmware Version 4.xx applies for LTE models.

Firmware Update

Boot Image File:	📄 sn-bootfs.jffs2	Change	Remove
Root Image File:	📄 sn-rootfs.jffs2	Change	Remove

Preserve Current Configuration: Yes ▾   ❓

Disclaimer
It is the customer's responsibility to review the advice provided herein and its applicability to the system. Red Lion Controls makes no representation about specific knowledge of the customer's system or the specific performance of the system. Red Lion is not responsible for any damage to equipment or connected systems. The use of these documents is at your own risk.

For more information: http://www.redlion.net/support/policies-statements/warranty-statement