



## OS Image for UC-2100 Series (MIL v1.4) Release Notes

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|-----------------------------------|-----------------------------|
| <b>Version:</b> v1.15             | <b>Build:</b> 250430_120725 |
| <b>Release Date:</b> Aug 20, 2025 |                             |

### Applicable Products

UC-2100 Series

### Supported Operating Systems

Moxa Industrial Linux 1 (Debian 9)

### New Features

N/A

### Enhancements

- Includes the latest security patches.
- EN 18031-1 RED cybersecurity compliance.  
For devices upgraded from previous firmware versions, Moxa Industrial Linux (MIL) will retain the original settings but provides the "mx-red-migrate" tool to ensure compliance with RED EN 18031-1 requirements. The tool implements the following changes:
  - Adds the password quality configure file.
  - Modifies the SSH configuration.
  - Adds fail2ban support.
  - Enforces a password change on first login.
  - Regenerates the SSH key on first login.
  - Adopts the pam\_tally2 mechanism.

For details about the tool, see MIL1 manual at: <https://www.moxa.com/en/products/industrial-computing/system-software/moxa-industrial-linux#resources>

- Uses HTTPS communication for Debian source in /etc/apt/sources.list.

### Bugs Fixed

N/A

### Changes

N/A

### Notes

N/A



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|-----------------------------------|-----------------------------|
| <b>Version: v1.13</b>             | <b>Build: 221214_131500</b> |
| <b>Release Date: Mar 06, 2023</b> |                             |

## **Applicable Products**

UC-2100 Series

## **Supported Operating Systems**

Moxa Industrial Linux 1 (Debian 9)

## **New Features**

- Adds the moxa-bootloader-manager utility for upgrading the bootloader from Linux.

## **Enhancements**

- Includes the latest security patches.

## **Bugs Fixed**

- Even if the watchdog timer flags WDIOS\_ENABLECARD and WDIOS\_DISABLECARD are set successfully, the return value always still indicates failure.
- CVE-2022-3088 for moxa-version utility

## **Changes**

N/A

## **Notes**

- For detailed release notes, including a change list for the packages, visit the Moxa Linux document center at: <https://docs.moxa.online/mil/>.



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|-----------------------------------|-----------------------------|
| <b>Version: v1.11</b>             | <b>Build: 220217_034027</b> |
| <b>Release Date: May 04, 2022</b> |                             |

## **Applicable Products**

UC-2100 Series

## **Supported Operating Systems**

Moxa Industrial Linux (Debian 9)

## **New Features**

- Adds the moxa-auto-mountd package for configuring auto-mounting of USB devices and SD card.
- Synchronizes utilities, libraries, and configurations across all Moxa Arm-based computer models with Moxa Industrial Linux 1.1.0.

## **Enhancements**

- Updates Debian to version 9.13.
- Includes the latest security patches.
- Cellular signal strength LED will now light up only when a connection to the Internet is available.
- The mx-ver utility now displays the Moxa Industrial Linux version.
- Adds the Moxa UPort driver for the UPort 1100/1200/1400/1600 Series.

## **Bugs Fixed**

- UC-2100 Series: An issue with the Telit cellular module gps\_off return code.

## **Changes**

N/A

## **Notes**

- For detailed release notes, including a change list for the packages, visit the Moxa Linux document center at:  
<https://docs.moxa.online/mil/>



|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Version: v1.9</b>              | <b>Build: Build_210331_042437</b> |
| <b>Release Date: May 03, 2021</b> |                                   |

### **Applicable Products**

UC-2100 Series

### **Supported Operating Systems**

Moxa Industrial Linux (Debian 9)

### **New Features**

- Built-in MXIO library for faster application development for ioLogik E1200 Series IOs.

### **Enhancements**

- Includes Debian security update 20210221.

### **Bugs Fixed**

- Need to tune the module initialization sequence on UC-2114-T-LX and UC-2116-T-LX to enhance compatibility to old LTE module (firmware revisions prior to L0.0.00.00.05.08).
- Clean up redundant module id file created when an unexpected power suspension occurs on the UC-2114-T-LX and UC-2116-T-LX.

### **Changes**

- Bumps the 'moxa-cellular-utils' minimum required version to 2.10.17.

### **Notes**

N/A



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|-----------------------------------|-----------------------------|
| <b>Version: v1.8</b>              | <b>Build: 210225_113840</b> |
| <b>Release Date: Mar 12, 2021</b> |                             |

### **Applicable Products**

UC-2100 Series

### **Supported Operating Systems**

Moxa Industrial Linux 1 (Debian 9)

### **New Features**

N/A

### **Enhancements**

- Updates Debian security to 20210221.

### **Bugs Fixed**

- UC-2114-T-LX, UC-2116-T-LX: Compatibility issues with old wireless module (firmware version L0.0.00.00.05.08 and prior). The module initial sequence on these models was tuned to enhance compatibility.
- UC-2114-T-LX, UC-2116-T-LX: Redundant module ID file created when power is suspended needs to be cleaned up.

### **Changes**

- Increases the 'moxa-cellular-utils' minimum required version to 2.10.17.

### **Notes**

N/A



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|-----------------------------------|------------------------------|
| <b>Version: v1.7</b>              | <b>Build: Build_20120315</b> |
| <b>Release Date: Jan 22, 2021</b> |                              |

## **Applicable Products**

UC-2100 Series

## **Supported Operating Systems**

Moxa Industrial Linux (Debian 9)

## **New Features**

- Supports Sierra Wireless Telit LE910C1-EU.
- Supports Sierra Wireless Telit LE910C1-AP.
- Supports Moxa MXview tool.

## **Enhancements**

- Upgrades kernel version to CIP 4.4.190.
- Upgrades Debian to version 9.13.
- Updates moxaburn to version 20081811.

## **Bugs Fixed**

N/A

## **Changes**

- Replaces mx-mod-ctl command with mx-module-ctl in the initial script of the platform.
- Replaces the uc2100-moxa-configs package with uc2100-base-system.
- Replaces uc2100-sparklan-firmware package with sparklan-qca9377-driver-4.4.0-cip-am335x.
- Uses mx-module-ctl to control the power module in the initial script of the platform.
- The minimum version requirement for moxa-cellular-utils is now 2.10.12.
- The minimum version requirement for moxa-module-ctrl is now 1.6.0.
- The minimum version requirement for the moxa-snmpd-support-package is now 1.1.1.
- The minimum version requirement for moxa-wifi-utils is now 1.8.6.
- The minimum version requirement for tpm2-tools is now 4.1.1-1-moxa1.
- Removes the auto-mount function.
- Uses modules-load.d to probe the crypto kernel module.
- Uses udev to configure the CAN bus link.
- Uses udev to configure the initial GPS settings for UC-2116-T-LX.
- Modifies the matching rule 09-watchdog.rules.

## **Notes**

- The NBIOT PPP connection works only with IPv4.



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|-----------------------------------|------------------------------|
| <b>Version: v1.6</b>              | <b>Build: Build_20042110</b> |
| <b>Release Date: Jun 05, 2020</b> |                              |

**Applicable Products**

UC-2100-W Series, UC-2100 Series

**Supported Operating Systems**

Moxa Industrial Linux (Debian 9)

**New Features**

N/A

**Enhancements**

- Updated the serial driver for better production stability.

**Bugs Fixed**

N/A

**Changes**

N/A

**Notes**

N/A



|                                   |                              |
|-----------------------------------|------------------------------|
| <b>Version: v1.4</b>              | <b>Build: Build 19020110</b> |
| <b>Release Date: Feb 01, 2019</b> |                              |

### **Applicable Products**

UC-2100 Series

### **Supported Operating Systems**

Moxa Industrial Linux (Debian 9)

### **New Features**

- Supports the carrier switch function on the NB-IOT module (UC-2114-T-LX, UC-2116-T-LX).
- Adds the ntpdate and rsync commands.

### **Enhancements**

N/A

### **Bugs Fixed**

- Wireless module does not respond to an AT command.

### **Changes**

- Upgrades moxa-cellular-utils and moxa-mux-tools commands.
- Removes the moxa-rclocal command.
- Renames the kernel version from 4.4.0-cip-uc2100 to 4.4.0-cip.

### **Notes**

N/A



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|-----------------------------------|------------------------|
| <b>Version: v1.2</b>              | <b>Build: 18051610</b> |
| <b>Release Date: Nov 27, 2018</b> |                        |

### **Applicable Products**

UC-2102-LX, UC-2111-LX, UC-2104-LX, UC-2112-LX, UC-2112-T-LX, UC-2101-LX

### **Supported Operating Systems**

Moxa Industrial Linux (Debian 9)

### **New Features**

- First release.

### **Enhancements**

N/A

### **Bugs Fixed**

N/A

### **Changes**

N/A

### **Notes**

N/A