



OS Image for UC-3100 Series Release Notes

Version: v1.8	Build: 24032009
Release Date: Mar 20, 2024	

Applicable Products

UC-3100 Series

Supported Operating Systems

Moxa Industrial Linux 1 (Debian 9)

New Features

- Supports auto installation of system image from an USB or a SD card upon next bootup.
Use the command `mx-bootloader-mgmt image_auto_install` to start the installation.

Enhancements

- Includes the latest security patches.
- Removes the 2 GB file size limitation on the bootloader for installing system images via the TFTP server.
To support system images exceeding 4 GB, use a TFTP server that can accommodate larger files. We recommend using the SolarWinds TFTP server, which is tested and approved by Moxa.

Bugs Fixed

N/A

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/>



Version: v1.7	Build: 221124_134540
Release Date: Mar 06, 2023	

Applicable Products

UC-3100 Series

Supported Operating Systems

Moxa Industrial Linux 1 (Debian 9)

New Features

- Adds the moxa-bootloader-manager utility for upgrading the bootloader for 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.
- The Bluetooth device fails to initialize at times.
- 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/>.



Version: v1.6	Build: 220505_155211
Release Date: Jul 01, 2022	

Applicable Products

UC-3100 Series

Supported Operating Systems

Moxa Industrial Linux 1.x (Debian 9)

New Features

- Supports UC-3111-T-EU-LX-NW, UC-3111-T-AP-LX-NW, and UC-3111-T-US-LX-NW.

Enhancements

N/A

Bugs Fixed

N/A

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/>



Version: v1.5	Build: 22030713
Release Date: May 04, 2022	

Applicable Products

UC-3100 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.
- Adds moxa-mxio-library, a user-friendly I/O programming library to reduce development effort and ease transfer operations when retrieving data from the ioLogik E1200 I/O devices.

Enhancements

- Updated 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.
- Added the Moxa UPort driver for the UPort 1100/1200/1400/1600 Series.

Bugs Fixed

- A connection failure issue on the UC-3100 Series (US models) with Telit cellular module when a Verizon SIM card is used without IMS.
- An issue with the Telit cellular module gps_off return code for the UC Series that supports Telit LE910.
- UC-3111 and UC-3121: An issue where a system reboot triggered by the watchdog might have resulted in kernel panic.

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/>



Version: v1.3	Build: 20102720
Release Date: Apr 16, 2021	

Applicable Products

UC-3100 Series

Supported Operating Systems

N/A

New Features

- Supports Telit LE910C1-EU and LE910C1-AP cellular modules.
- Updates the mx-module-ctl tool to support the `get sim card slot` function.

Enhancements

- Upgrades the root file system to Debian 9.13.

Bugs Fixed

- Wrong status from qmi wds when the signal is weak and the status is “detached”.
- First qmi command timeout issue on the Telit cellular module.
- Upgrades the root file system packages to fix CVEs.

Changes

N/A

Notes

N/A



Version: v1.2	Build: 20040710
Release Date: Nov 06, 2020	

Applicable Products

UC-3100 Series

Supported Operating Systems

Moxa Industrial Linux (Debian 9)

New Features

- Kernel version upgraded from CIP Linux 4.4.75 to 4.4.190.
- OS updated from Debian 9 version 9.3 to 9.11. For details, visit <https://www.debian.org/News/2019/20190908>.
- Adds the mx-power-mgmt utility for managing power consumption.
- Includes multi-GNSS (GPS, GLONASS, BeiDou, Galileo, and QZSS) support.
- Bluetooth 4.2 compliant.
- Adds the mx-ver utility for retrieving device model name and version.
- Add the mx-module-ctl utility with wireless module power on/off status query to replace the mx-mod-ctl utility.
- Updates the cell_mgmt utility to support the Telit LE910C1-NF cellular module.
- Upgrades tpm2-tools to version 3.1.3-2.

Enhancements

- Replaces the TI USB 3410 driver with the Moxa UPort driver to improve transmission stability.
- Disables the WL1837 Wi-Fi module ELP mode by default to improve connection stability.

Bugs Fixed

N/A

Changes

- SD and USB card is no longer auto-mounted to increase device security.
- Removes mx-frm-upgrade, mx-frm-downgrade, and mx-overlay commands.
- Adds the can-utils and bridge-utils utilities.
- Merges uc3100-moxa-configs and uc3100-moxa-firmware packages into the uc3100-base-system package.
- Changes kernel name to 4.4.0-cip-rt-am335x.

Notes

N/A



Version: v1.1	Build: N/A
Release Date: Nov 05, 2018	

Applicable Products

UC-3100 Series

Supported Operating Systems

Moxa Industrial Linux (Debian 9)

New Features

- Enables cellular module's 'disable thermal shutdown' feature by default.
- Runs fsck when the system is booting up.
- Adds the moxa-init self-upgrade feature.

Enhancements

N/A

Bugs Fixed

N/A

Changes

- The UART driver ti_usb_3410 is not preinstalled and needs to be installed manually.
- Includes a platform initialization service before the auto-mountd.service.

Notes

N/A