



OS Image for UC-8200 Series (MIL v1.4) Release Notes

Version: v1.9	Build: 250430_120853
Release Date: Aug 20, 2025	

Applicable Products

N/A

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



Version: v1.8	Build: 250207_044133
Release Date: Apr 24, 2025	

Applicable Products

N/A

Supported Operating Systems

Moxa Industrial Linux 1 (Debian 9)

New Features

- Updates cellular management utility (cell_mgmt) to support Telit LE910C4-WWxD.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A



Version: v1.7	Build: 24032015
Release Date: Mar 20, 2024	

Applicable Products

UC-8200 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.
- Adds 'cell_mgmt sw_reset' command for faster reboot time in time-sensitive applications.

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

- When using the 'cell_mgmt power_cycle' command to initiate the modem power cycle, the cycle time will be extended by 25 seconds.
This adjustment will address a rare issue of the Telit LE910C4 modem entering the protected mode during an excessively rapid power cycle. For time-sensitive applications that require quicker reboot, a new software reset command 'cell_mgmt sw_reset' has been introduced, which can be used to significantly shorten the reboot time.

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: 221124_134630
Release Date: Mar 06, 2023	

Applicable Products

UC-8200 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/>.



Version: v1.5	Build: 220401_030638
Release Date: May 05, 2022	

Applicable Products

UC-8200 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

- 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.
- Increases the signal strength refresh interval to 60 seconds to improve performance.
- Upgrades tpm2-tools from 3.1.3-2 to 4.1.1-1.
- The Type parameter of wifi_mgmt utility is no longer case sensitive.

Bugs Fixed

- Duplicated SSIDs in the managed AP list of the wifi_mgmt 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: v1.3	Build: 20072413
Release Date: Nov 26, 2020	

Applicable Products

UC-8200 Series

Supported Operating Systems

Moxa Industrial Linux (Debian 9)

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Connection compatibility issue between the Moxa cell_mgmt utility and Verizon on u-blox's latest revision of TOBY-L201 for the Americas (model: TOBY-L201-02S-01).

Changes

N/A

Notes

N/A



Version: v1.2	Build: 20060314
Release Date: Jul 16, 2020	

Applicable Products

UC-8200 Series

Supported Operating Systems

Moxa Industrial Linux (Debian 9)

New Features

N/A

Enhancements

N/A

Bugs Fixed

- Fixed an issue wherein the Wi-Fi accessory driver sometimes fails to initialize.
- Reset to default does not reset the OS kernel.
- The hardware initialization default state of the DO is ON when booting into the OS; should be OFF. DO state OFF is equivalent to setting a value HIGH in the mx_dout_set_state() API of the Moxa DIO control library.

Changes

N/A

Notes

N/A



Version: v1.1	Build: N/A
Release Date: Jan 06, 2020	

Applicable Products

UC-8210-T-LX, UC-8220-T-LX-US-S, UC-8210-T-LX-S, UC-8220-T-LX-EU-S, UC-8220-T-LX-AP-S, UC-8220-T-LX

Supported Operating Systems

Debian 9.x

New Features

- First release.

Enhancements

N/A

Bugs Fixed

N/A

Changes

N/A

Notes

N/A