

Product Change Notification—PCN# **PCN001054**

September 10, 2024

Dear Valued Customer,

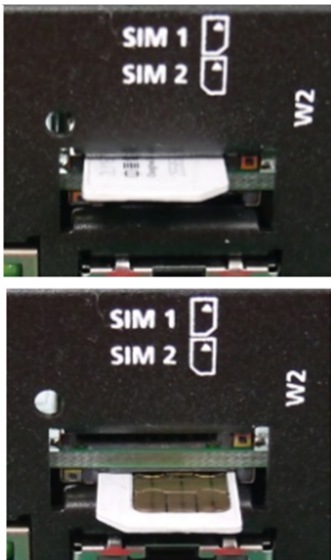
We would like to inform you that Moxa is going to make changes to the UC-5100 Series. These changes will be implemented September 2024. Please review the details below to determine how these changes will affect your products and/or operations.

What will change?

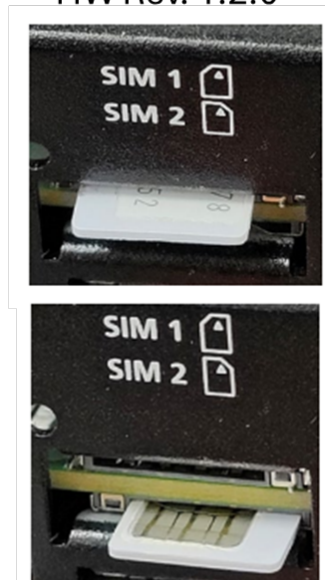
Hardware

1. **USB 2.0 Hub:** Replacement because of the end-of-life (EOL) of the current component.
2. **DDR3 Memory:** Update necessitated by the component reaching its end-of-life.
3. **SIM Slot (Models UC-5102/5112):** Modification because of the end-of-life of the current component. We will adjust the direction of SIM insertion. Please refer to the following diagram for detailed changes.

UC-5102/5112
HW Rev. 1.1.0



UC-5102/5112
HW Rev. 1.2.0



Operating System

Moxa Industrial Linux 1 (Debian 9) Upgrade:

1. **Security:** Integration of the latest security patches to enhance system security.

2. **Bootloader Management:** Introduction of the moxa-bootloader-manager utility, allowing bootloader upgrades directly from Linux.
3. **System Installation Automation:** Capability to auto-install system images from a USB or SD card on the next boot. Start this installation with the command: `mx-bootloader-mgmt image_auto_install`.
4. **Watchdog Timer Bug Fix:** Resolution of a bug where the watchdog timer's return values for `WDIOS_ENABLECARD` and `WDIOS_DISABLECARD` flags showed failure despite a successful setting.
5. **CVE-2022-3088 Patch:** Correction in the moxa-version utility to address this specific vulnerability.
6. **Automatic Mounting:** Addition of the moxa-auto-mounted package to facilitate auto-mounting of USB devices and SD cards.
7. **I/O Library Enhancement:** Introduction of the moxa-mxio-library, an easy-to-use I/O programming library designed to simplify data retrieval from ioLogik E1200 I/O devices and reduce development efforts.
8. **Cellular Connectivity Indicator:** Modification of the cellular signal strength LED to show active internet connection only.
9. **System Version Display:** Enhancement in the mx-ver utility to accurately display the version of Moxa Industrial Linux.
10. **Driver Updates:** Addition of the Moxa UPort driver for UPort 1100/1200/1400/1600 Series.
11. **TPM Tools Upgrade:** Update of tpm2-tools from version 3.1.3-2 to 4.1.1-1.

Which products will be affected?

Product Name	Product Revision		MIL Image Version	
	Current	New	Current	New
UC-5101-LX	1.1.0	1.2.0	V1.3	V1.6
UC-5101-T-LX	1.1.0	1.2.0	V1.3	V1.6
UC-5102-LX	1.1.0	1.2.0	V1.3	V1.6
UC-5102-T-LX	1.1.0	1.2.0	V1.3	V1.6
UC-5111-LX	1.1.0	1.2.0	V1.3	V1.6
UC-5111-T-LX	1.1.0	1.2.0	V1.3	V1.6
UC-5112-LX	1.1.0	1.2.0	V1.3	V1.6
UC-5113-T-LX	1.1.0	1.2.0	V1.3	V1.6

Note:

1. Product Revision is the Rev. number printed on the sticker of a Moxa Arm-based computer
2. The MIL Version can be queried using the command **mx-ver -M**.
3. The Image Version can be queried using the command **mx-ver -v**.
4. After a successful update, the MIL version should be v1.3.0, and the Image version should be v1.6.
5. The update to Moxa Industrial Linux may affect your software. We strongly recommend testing compatibility with your software before applying the update.

When will the new versions be available?

1. The new model revision is tentatively scheduled to be available after October 1, 2024. Depending on the remaining stock levels of the current revision, we may adjust the availability date either earlier or later.
2. Moxa Industrial Linux 1.3.0 is available to download now. Update your UC Series above using the methods below:
 - OTA update from APT software repositories. For instructions, please refer to [How to Keep Moxa IIoT Gateway Software Up-to-date](#)
 - Download and install OS image binary from [Moxa Arm-based computer product website](#)

Note: The above installations do not include a bootloader update. Moxa Industrial Linux 1.3.0 is compatible with the previous versions of the bootloader. If you wish to upgrade your bootloader to the latest version, please contact your regional sales representative.

If you have any questions, please contact Michelle YL Li at michelleyl.li@moxa.com, or contact your regional sales representative.