

## WI-IO-9-U3 Firmware Downgrade to WI-IO-9-U2 Procedure

### Purpose

This procedure explains how to downgrade the WI-IO-9-U3 firmware to the older legacy WI-IO-9-U2. The downgrade is performed by applying the appropriate firmware files using the USB thumb drive that is provided in the box with the radio. This procedure applies to both 900Mhz and 869Mhz models.

**NOTE:** This procedure will default the radio to a US locale. If you require a different locale, please follow the procedure below and select accordingly.

### 1. Equipment Required

- WI-IO-9-U3 to be downgraded.
- USB drive with files (WI-IO-9-U3 Firmware) already installed. Files can be accessed on the thumb drive that is supplied in the box.
- PC or Laptop (to copy firmware files and check success).
- USB programming cable (to change “Locale” and confirm upgrade success).

### 2. Downgrade Procedure

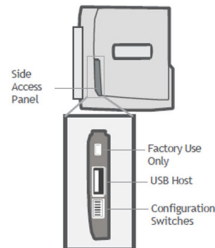
1. First, locate the USB drive from the box and insert into your computer. You will see four directories on the USB, one for each configurable “Locale”.

Name	Status	Size	Type
AU	✓		File
EU	✓		File
NZ	✓		File
US	✓		File

2. Open the directory for your “Locale” and copy the two files into the Root of the USB drive.

Name	Status	Size	Type	Da
AU	✓		File folder	28,
EU	✓		File folder	28,
NZ	✓		File folder	28,
US	✓		File folder	28,
e2v2.jffs2.swap	✓	3,535 KB	SWRAP File	24,
e2v2.kernel.swap	✓	1,328 KB	SWRAP File	24,

- Remove the small access panel on the right-hand side of module (if looking front on), this will reveal a USB port and switches.



- Remove the USB drive from your computer and plug it into the USB port on the module, then reset power to the module. The radio will reboot and the firmware from the USB drive will be loaded.
- Follow the LED sequence in the diagram below. You should see the LED on the USB start flashing and a long solid ORANGE PWR LED on the Radio. Please wait until you see the PWR LED start to flash ORANGE, then go to step 7 below.

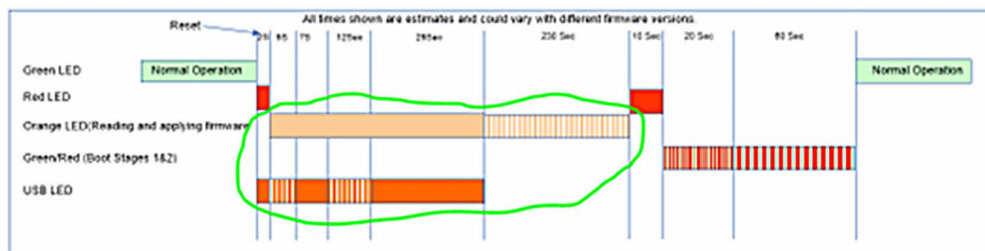


Figure 1. WI-IO-9-U3 to WI-IO-9-U2 PWR LED Sequence during Firmware Downgrade

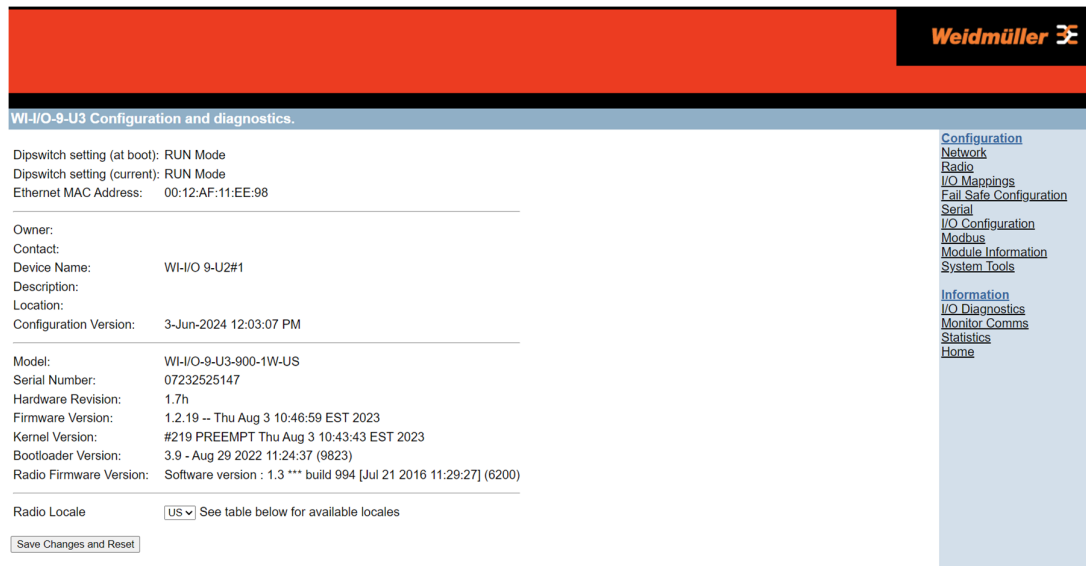
- If the USB LED is not flashing and/or the radio PWR LED skips the long solid and flashing ORANGE, but flashes RED/GREEN instead, this means it has not read the USB drive. If this occurs, try the process again by removing and reinserting the USB drive, then cycle power to the radio. If the issue persists, please contact Technical Support.
- You can now remove the USB (this can be removed at any stage during the PWR LED flashing ORANGE or RED/GREEN). Let the module go through the full process which can take 8-10 minutes. This may include another reboot depending on the firmware version and when the USB is removed.  
**NOTE: MAKE SURE POWER IS NOT INTERRUPTED DURING THIS PROCESS OR THE MODULE MAY BECOME UNSERVICEABLE.**
- After the upgrade, the PWR LED should be ON solid GREEN and the RS485 LED will be flashing, this indicates the module has successfully downgraded to a WI-IO-9-U2.

### 3. Upgrade Confirmation

When completed, review the web homepage to confirm the firmware has been downgraded.

- Plug an Ethernet cable into the LAN socket on the bottom of the radio, open a web browser and connect to the default IP address of the radio. The default IP address which will be in the range of 192.168.0.XXX, can be found on the side label of the module.
- You will need to sign in using the default Username and Password of “user” & “user”.

3. You should be greeted with a web page similar to the one below.



The screenshot shows a web interface for a Weidmüller device. At the top right is the Weidmüller logo. Below it is a blue header bar with the text "WI-I/O-9-U3 Configuration and diagnostics." The main content area is divided into two columns. The left column contains configuration and diagnostic data, and the right column contains a navigation menu.

**WI-I/O-9-U3 Configuration and diagnostics.**

Dipswitch setting (at boot): RUN Mode  
Dipswitch setting (current): RUN Mode  
Ethernet MAC Address: 00:12:AF:11:EE:98

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Owner:  
Contact:  
Device Name: WI-I/O 9-U2#1  
Description:  
Location:  
Configuration Version: 3-Jun-2024 12:03:07 PM

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Model: WI-I/O-9-U3-900-1W-US  
Serial Number: 07232525147  
Hardware Revision: 1.7h  
Firmware Version: 1.2.19 -- Thu Aug 3 10:46:59 EST 2023  
Kernel Version: #219 PREEMPT Thu Aug 3 10:43:43 EST 2023  
Bootloader Version: 3.9 - Aug 29 2022 11:24:37 (9823)  
Radio Firmware Version: Software version : 1.3 \*\*\* build 994 [Jul 21 2016 11:29:27] (6200)

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Radio Locale  See table below for available locales

**Navigation Menu:**

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- [Network](#)
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- [Serial](#)
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