1280 Enterprise™ Series
Firmware Version 1.10 Update

The 1280 firmware version 1.10 addresses a limitation to the update rate when multiple scales are connected. The data packet size has been optimized for increased performance.

⚠ **CAUTION**	*Electrostatic sensitive device, observe handling precautions to prevent shock or damage caused from electrostatic discharge.*
IMPORTANT	*When updating the 1280 Enterprise™ Series to firmware version 1.10, the scale card must be version 1.04 or above and the bootloader must be version 3.00. The following instructions detail this process.*

Before proceeding, ensure configuration files are backed up through Revolution® software or on a USB flash drive. Updating the 1280 firmware erases the existing configuration.

Option cards are not hot-swappable. Disconnect power to the indicator before removing or installing option cards.

Reference the 1280 Technical Manual (PN 167659) for complete technical documentation.

Manuals can be viewed or downloaded from the Rice Lake Weighing Systems website at **www.ricelake.com/manuals**

To update the 1280 indicator, the following procedure must be followed:

1. Download the 1280 firmware version 1.10 from the Rice Lake website.
2. Unzip/extract the downloaded file 1280version_1_10.zip. The folder contains the following files:
   - 1280_Bootloader_3_00.zip
   - 1280_Firmware_1_10.zip

> 📝 **Note** *Updating the 1280 firmware to version 1.10 must be done in the following order:*
>
> *A. Install bootloader version 3.00 (1280_Bootloader_3_00.zip) – This must be installed first, as it contains only the bootloader and other required low-level data.*
>
> *B. Install 1280 Firmware version 1.10 (1280_Firmware_1_10.zip) – The firmware contains added features for all 1280 systems. It requires information in the bootloader to already be installed.*
>
> *C. Update scale card firmware to version 1.04 – The 1280 firmware version 1.10 will not work with scale card versions below 1.04.*

Installing the Bootloader

1. Unzip the 1280_Bootloader_3_00.zip file and copy the directory to a USB flash drive.

> 📝 **Note** *Ensure the files are copied to the root level of the flash drive (not a subfolder).*

2. Insert the flash drive into the USB port of the 1280.
3. Complete the firmware update process as described in the 1280 technical manual (PN 167659).

> 📝 **Note** *If this process fails, check the update.log file in the update directory on the flash drive. Contact Rice Lake's technical support at 800-472-6703 if assistance is needed. Having access to the update.log file aids troubleshooting.*

4. The system will reboot if the bootloader installation process was successful. Proceed to installing the 1280 firmware after the reboot.

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Installing the 1280 Firmware

1. Make sure the bootloader files are removed from the USB flash drive before proceeding.
2. Unzip the 1280_Firmware_1_10.zip file and copy the directory to the USB flash drive.

📝 **Note** *Ensure the files are copied to the root level of the flash drive (not a subfolder).*

3. Insert the flash drive into the USB port of the 1280.
4. Complete the firmware update process as described in the 1280 technical manual (PN 167659).

📝 **Note** *If this process fails, check the update.log file in the update directory on the flash drive. Contact Rice Lake's technical support at 800-472-6703 if assistance is needed. Having access to the update.log file aids troubleshooting.*

5. The system will reboot if the 1280 firmware installation process was successful. Proceed to updating the scale card firmware after the reboot.

Updating the Scale Card Firmware

After the 1280 firmware version 1.10 has been installed, the scale card firmware must be updated to version 1.04. Updating the scale card through the 1280 front panel is described below; see the 1280 technical manual (PN 167659) for complete technical documentation.

IMPORTANT *If this process is not followed as described below, including power cycling, the scale card could be damaged and need to be replaced.*

A USB cable, with type A connection on one end and micro connection on the other, is required to re-flash the scale card. Ensure cable is available, once existing firmware is erased it cannot be recovered.

1. Navigate to the configuration menu of the 1280 and press the Diagnostics icon.
2. Press **Erase Card Utility**, then select the slot containing the scale card to be erased.
3. Press **Erase Card**. A flashing red LED on the card indicates the card's existing firmware has been erased and that it is ready to be flashed with new firmware.
4. Power down the 1280.
5. Remove the scale card from the 1280.
6. Using a USB cable (with type A connection on one end and micro connection on the other), connect the scale card to the 1280 CPU board.
7. Power up the 1280.
8. Navigate to the configuration menu of the 1280 and press the Diagnostics icon.
9. Press **Flash Card Utility** and select the firmware to be flashed.
10. Press the **Flash Card** button. A flashing green LED on the card indicates the card has been flashed with new firmware. The process will take several seconds to complete.
11. Once successful confirmation appears, power down the 1280.

IMPORTANT *If the 1280 is not powered down at this point, the scale card could be damaged and need to be replaced.*

The 1280 must be power cycled before updating another scale card.

12. Reinstall the scale card and power up the 1280.