

E6203x MAIN FIRMWARE RELEASE NOTES

Ishida Uni-8 Series PC-Based Scale

Procedure to Install Uni-8 Firmware

Refer to the *Uni-8 Installation Manual* for complete information.

CAUTION

- *To address a potential lockup issue, it is critical that firmware version E6203H be loaded **before** any subsequent version.*
- *Once E6203H has been loaded then any newer firmware version can be loaded.*
- *Note that from serial number 100729845 loading E6203H is unnecessary as the firmware has been updated during factory installation of the 2.4/5GHz wireless card.*

1. Copy the scale firmware folder "Soft" onto an empty USB memory stick.
 - The "Soft" folder itself must not be zipped even if some files in the folder are.
 - The "Soft" folder should be the only data on the USB memory stick.
2. Power up the scale and press the green **ENTER** button at the Date/Time confirm screen.
3. Open the access panel on the left side of the scale and insert the USB memory stick into any of the four USB ports.
 - No other USB devices should be connected.
4. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
5. Press the **LOGIN** key (lower left).
6. Enter **495344** and press the **PLU** key to access hidden menu steps.
7. Press the **ADJUST** menu button.
8. Select **DOWNLOAD**.
9. Press the firmware version to be installed. It will be highlighted in yellow.
10. Press **EXEC** to confirm the selection.
11. Press **EXEC** to begin the firmware download.
12. The screen will show the firmware download progress. The download will take several minutes to complete.
13. When the Re-Boot Check message 15029-0002 is displayed, the firmware download is complete. The scale will automatically reboot.
14. Press the green **ENTER** button at the Date/Time confirm screen.
15. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
16. Then press the **LOGIN** key (lower left).
17. Enter **495344** and press the **PLU** key to access hidden menu steps.
18. Press the **ADJUST** menu button.
19. Continue from step 20 unless error 1601-0000 "Span Adjustment For Scale Is Not Completed" was displayed. In that case the scale calibration must be initialized and a recalibration performed.

Note: Initialization and calibration are only required one time when updating from firmware version E6203D or earlier.

 - a. Select **CALIBRATION**.
 - b. Note the *Capacity* and *Range* settings.
 - c. Press the **INITIAL** button and then press **EXEC** to confirm.

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- d. Change the *Capacity* and *Range* back to the original settings.
- e. With no weight on the platter press **ZERO**. The WEIGHT A/D count should be 20000.
Note: The counts are unstable as all calibration data have been deleted.
- f. Place full capacity on the scale.
- g. Press **SPAN**. The WEIGHT A/D count should be 80000.
- h. Remove the weight and confirm the WEIGHT A/D counts return to 20000. If not, repeat steps e. to g. as needed.
- i. On the left side of the scale, remove the bottom hex sealing bolt covering the Calibration Save button.
- j. Use a non-conductive tool to press and hold the Calibration Save button until the beep sounds.
- k. Remount the hex sealing bolt.
- l. Press the **RETURN ARROW** key (upper right) to exit calibration.



Calibration Save Button Access

20. Select **MEMORY CLEAR**.
21. Press **CLEAR** to ensure there is no unintended data resulting from the new firmware.
22. Press **EXEC** to confirm the memory clear.
23. Press the **RETURN ARROW** key (upper right) after the result of **OK** is displayed.
24. From the **ADJUST** menu select **DOWNLOAD**.
25. Press the **SUB APP.** tab.
26. Press the program to be installed. It will be highlighted in yellow. Select only one Sub App program at a time.
27. Press **EXEC** to confirm the selection. Press **EXEC** to begin the firmware download.
28. The screen will show the firmware download progress. The download will take several minutes to complete.
29. When the Re-Boot Check message 15029-0002 is displayed the firmware, download is complete. The scale will automatically reboot.
30. Press the green **ENTER** button at the Date/Time confirm screen.
31. Press the **RETURN ARROW** key (upper right) to enter the Main menu.
32. Press the **LOGIN** key (lower left).
33. Enter **495344** and press the **PLU** key to access hidden menu steps.
34. Repeat steps 21 ~ 27 to load any remaining Sub App programs.
35. Remove the USB memory stick.

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Version E6203Q

Release Date: May 2026

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: **E6202Q**
Scale Driver: B0671 (E6200)
OS: Debian (10)
FPGA App.: D026D (ACEC)

NOTES:

- After downloading the Main program, download the FPGA Sub App program as needed.
- When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203P)

- Fixed a bug where an apostrophe in the SSID name prevented connection to wireless networks (Setup menu → Machine No. → WiFi tab).
- Fixed a bug where PLU fields were not blocked when set in PLU Comm. Setting (Setup menu).
- Fixed an issue where the Ping function did not work properly.

Version E6203P

Release Date: April 2026

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: **E6202P**
Scale Driver: B0671 (E6200)
OS: Debian (10)
FPGA App.: **D026D (ACEC)**

NOTES:

- After downloading the Main program, download the FPGA Sub App program as needed.
- When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

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The following lists the main changes from the previous version (E6203N)

1. Fixed a bug where the first and third lines were cut in half for PLUs with descriptions of three or more lines when display in the PLU List, or dynamic search [function key 427: PLU Search] and static search [function key 76 PLU No. Search].
2. Fixed a bug where the Error Log was not received in the Maintenance Utility (Scale Error Log).
3. Fixed a bug where spaces in the SSID name prevented connection to wireless networks (Setup menu → Machine No. → WiFi tab).
4. Corrected the WPA2 Enterprise encryption description from "WPA2 8021X AES" to "WPA2 802.1X AES".

Known Issues:

- The scale will not connect to a wireless network if the SSID name contains an apostrophe (Setup menu → Machine No. → WiFi tab).
- PLU fields are not blocked when set in PLU Comm. Setting (Setup menu).

Version E6203N

Release Date: January 2026

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: **E6202N**
Scale Driver: B0671 (E6200)
OS: Debian (10)
FPGA App.: D026D (ACEC)

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203M)

1. Removed the SLEEP mode as an options in the Scheduler (Program menu).

Known Issue: PLU fields are not blocked when set in PLU Comm. Setting (Setup menu).

Version E6203M

Release Date: October 2025

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: **E6202M**
Scale Driver: B0671 (E6200)
OS: Debian (10)
FPGA App.: **D026D (ACEC)**

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NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203L)

1. Fixed a bug where Campaigns were not recognized until the menus had been entered or the scale was powered off/on.
2. Added support for WPA2 PSK TKIP encryption method.
3. Added support for WPA2 Enterprise (802.1x) authentication to WiFi security (Setup menu → Machine No. → WiFi tab).
 - a. Added a "WPA2 8021X AES" encryption option.
 - b. Added **Authentication User Name** and **Authentication Password** fields to the WiFi screen.
 - c. Added authentication type PEAP w/ MSCHAPv2.
4. Addressed the following potential security vulnerabilities.
 - a. Implemented measures to stop the HTTP server by default [HTTP TRACE Method Enabled].
 - b. Updated jQuery version from 1.7.1 to 3.5.1 [jQuery Vulnerabilities: CVE-2015-9251 and CVE-2020-11022].
5. Updated the following wording:
 - a. "WPA2 PSK CCMP" (Setup menu → Machine No. → WiFi tab).
 - b. REBOOT CHECK, message 14038.
6. Increased the number of digits for Extra Msg #1, Ingredients, and Extra Msg #3 message numbers from six to eight.
7. Fixed a bug related to the header data that caused lock up while printing receipts in cash register mode.

Version E6203L

Release Date: October 2025

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: **E6202L**
Scale Driver: B0671 (E6200)
OS: Debian (10)
FPGA App.: D026C (88AA)

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.

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Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203K)

1. Modified the wireless configuration to automatically generate a random passphrase password for 2.4/5GHz when a password is deleted.
2. Fixed a bug where the static IP address was not properly configured on the 2.4/5GHz wireless card when using the unencrypted (None) security setting.

Version E6203K

Release Date: June 2025

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: **E6202K**
Scale Driver: B0671 (E6200)
OS: Debian (10)
FPGA App.: **D026C (88AA)**

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203J)

1. Updated the FPGA sub app to version D026C to support error message 0710-0000 NO LABEL FOR PRINTER 1 when using continuous label.
Note: This error occurs even if the label gap sensor is disabled (Adjust menu → Printer → Label Feed tab → Sensor Type → 0: None).
2. Fixed a bug that affected the print position on first three labels after power up when using continuous strip label.
3. Fixed a bug where Display Images sent from ScaleLink Pro 5 (UNI-8 IMAGES) were not displayed in the list of images for Ad Messages or PLU Display Image.
4. Added a POWER OFF button in the top Date and Time bar. The button is oval shaped to identify it as an active function key rather than a status indicator.
 - Press the button to display the 19006 Power Off prompt. This is the same operation as function key 541: Power Off.
 - **IMPORTANT:** The Power Off key should always be used to ensure the internal database closes properly before switching off the main power.

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5. Changed the USB STATUS indicator icon to an oval shaped active function key.
 - The button is green when a USB is inserted.
 - Press the button to deactivate the USB before removal. The button will shade out indicating it is safe to remove the USB.

TARE	lb	ZERO WEIGHT	lb	UNIT PRICE	\$/lb	TOTAL PRICE	\$
0.000		0.000		0.00		0.00	

6. Modified Weight campaign items set as 16: U/P to display the Total Price as a normal price and not display the original price crossed out indicating a markdown.

Note: Fixed Price items set as 17: Price still incorrectly display the sale price and the original price crossed out.
7. Modified the VNC Remote Operation parameters. (Setup menu → Machine No. → Global Sv. tab).
 - a. Renamed the setting from "VNC SERVICE" to "REMOTE OPERATION".
 - b. The REMOTE OPERATION settings are hidden. Press the white Input rectangle at the lower right to call the numeric keyboard to enter the service password 495344, PLU to display the settings.
 - c. The selections are changed from STOP / START to DISABLE / ENABLE VNC / ENABLE VNC+SSH.
 - d. Added the VNC+SSH option for VNC connection with security considerations via SSH port forwarding.
 - e. Added the SSH PORT setting to allow the port number to be changed. The default port number is 49534 rather than the commonly used 22 for additional security.
8. Updated control of the font size for PLU and Top Seller keys as follows. These changes only apply when made at the Uni-8. Presets downloaded from SLP-5 do not follow these rules.
 - a. The PLU or Top Seller preset key located at the top-left position on a page determines the font size for other PLU and Top Seller preset keys.
 - b. The TITLE FONT setting of the top-left key is used to control the font size of the remaining keys.
 - c. The font size control is limited to the current page only.
 - d. If the page contains a mix of PLU and Top Seller keys, they are controlled separately by the top-left key of each type.
 - e. The font size of individual PLU and Top Seller keys can be changed if necessary to accommodate a larger number of characters. This should be done last as any change to the top-left key will reset all keys.
 - f. If there is no PLU and Top Seller key at the top-left, the first preset key created on the page will be used to set the font size of other preset keys.
9. Modified Cassette setting Sales Mode to allow any of the three CR Mode selections.
10. Modified preset function key 435: CAST. SW. to work when linked to a Cassette set for any of the three CR Mode selections.

Known Issue: The scale may not connect to a hidden wireless network, i.e., where the SSID is not broadcast, for TP-Link and D-Link access points or routers manufactured before 2020.

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Version E6203J

Release Date: January 2025

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: **E6202J**
Scale Driver: B0671 (E6200)
OS: Debian (10)
FPGA App.: **D026B (BEE0)**

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203H)

1. Updated the FPGA/Printer sub app to version D026B to fix a bug where error 1621 "No Response From Scale" occurred:
 - Fixed an internal communication timing issue between the CPU board and the Printer board.
 - Changed the print speed to be fixed at 100mm/sec even if a higher value is selected.
2. Fixed a bug where error 0106 "Battery Fault" was unnecessarily displayed.
3. Fixed a bug where error 0121 "Fan Is Abnormal" was unnecessarily displayed
4. Fixed a bug where the PLU description from the previous item remained on the operator display if the PLU was set for markdown.
5. Fixed a bug where the page number at the upper right did not change in the PLU Comm Setting menu. (Setup menu → PLU Comm. Setting).
6. Fixed a bug that caused ScaleLink Pro 5 error 12 "out of range" when the default Preset Keyboard was received and sent due to an incorrect Key Width value.
7. Fixed a bug where the firmware update stopped during execution.
8. Fixed a bug where sales transaction data incorrectly sent zero value data back to ScaleLink Pro 5.
9. Fixed a bug by automatically clearing the data if an invalid USB memory image remains during boot up.
10. Fixed a bug where the PLU image displayed on a Top Seller preset key was not updated from the previous PLU.
11. Fixed a bug where error 1301 "Journal Printer Is Not Connected" when error 0701 "Cannot Communicate With Printer 1" should have been displayed. Note that error 0701 occurs if there is no connection between the Main board PS-100 and the Printer board PS-096C.
12. Fixed a problem where SLP-5 received an "Out of Range" error when sending Scale Config data to the scale due to an incorrect wireless security value (Maintenance Utility → Scale Config button).

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13. Updated the default logos images:
 - a. Changed to print at the correct size.
 - b. Improved the image quality.
 - c. Added 62 new images.
14. Modified the font size of the PLU (#1) and Top Seller (#437) preset keys to follow the size specified on the first key at the top left on each page. The font size is entered in the Font field rather than the Title Font field.
15. Modified printing to automatically adjust the alignment when using Continuous labels. Note that Back Feed must be enabled. (Adjust menu → Printer → Label Feed tab → Back Feed = Yes).
16. Modified the time format in the Scheduler to 12-hour format with AM/PM. There is no AM/PM selection so the time must be entered in 24-hour format. (Program menu → Scheduler).
17. Added support for the Lantronix xPico-240 5G/2.4G wireless module when installed.
 - a. Added a WiFi module check to determine which wireless device is installed in the scale (Adjust menu → Option Check → Device tab → Device). Displayed results when the EXEC button is pressed are:
 - 2.4GHz model
 - 5G/2.4GHz model
 - b. Added support for both WPA-PSK-TKIP and WPA2-PSK-CCMP when WPA-PSK-TKIP is selected. **Note:** CCMP is another name for AES.
18. Added a setting to control if the Display Image linked to a PLU prints on a Top Seller preset key [#437] (Setup menu → Operation Settings → Top Seller tab → Display Image).
 - No – do not display images on the Top Seller PLU preset keys (default).
 - Yes – display images on the Top Seller PLU preset keys.

Known Issues:

- Display images received from ScaleLink Pro 5 are blank when viewed in the menus. The images are displayed in operation mode. A workaround is to make a USB backup and reload the images from a USB.
- The scale may not connect to a hidden wireless network, i.e., where the SSID is not broadcast, for TP-Link and D-Link access points or routers manufactured before 2020.
- The PLU Description does not expand properly for the first three labels after power up when using continuous labels.

Version E6203H

Release Date: September 2024

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: **E6202H**
Scale Driver: B0671 (E6200)
OS: Debian (10)
FPGA App.: D026A (6177)

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.

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Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203G)

1. Fixed a bug where the scale did not complete boot up as the previous system log was not overwritten causing the memory to fill.
2. Fixed a bug where the scale locked up when printing a second label [2nd Label Print = 1:Yes].
3. Fixed a bug where entering a price change at the PLU List did not change the price for the selected PLU. (Program menu → PLU).
4. Fixed a bug where a preset keyboard received from ScaleLink Pro 5 was added to the existing keyboard instead of replacing it.
5. Fixed a bug where deleting a backup file from a USB caused error 0268-0000 "File Delete Error - It Failed To Delete The Data". (Setup menu → File Save/Load → USB Data Del tab).
6. Fixed a bug where deleting all backup files from a USB deleted the contents of the backups but the file names were still listed on the screen. (Setup menu → File Save/Load → USB Data Del tab).
7. Fixed a bug where initializing the Cassette did not change all settings back to the default values. (Setup menu → File Save/Load → Scale Init tab → Cassette).
8. Changed the time to 12-hour format at the following:
 - Operation mode - top bar.
 - Preset function key 505: MASTER RECEIVE TIME.
 - Default label formats 1, 10, 12, 78, 901, 906, 907, 911, and 916-919.
9. Increased the size of keys on the pop-up 10-key keyboard.
10. Modified the virtual cassette selection and operation.
 - a. Removed the "CAST. INSERT" option from the CAST. SWITCHING setting and fix the setting as "PRESET KEY". (Setup menu → Cassette).
 - b. Enabled preset function key 435: CAST. SW. to change virtual label cassettes. Set the key data as the cassette number. The selected cassette is used for all PLUs until it is changed. (Program menu → Presets).
 - c. Preset function key 70: CASSETTE is a split key that displays the current cassette number. (Program menu → Presets).
11. Modified Label Batch (function key 27) to display the pop up 10-key numeric keypad when the COUNTS column is pressed.
12. Changed the default setting for Damaged Thermal Head Error Display from "Continuous Msg" to "On Time Msg". (Setup menu → Error Process → Common tab).
13. Changed the default setting to ignore non-existent messages: Extra Msg1, Ingredients, and Extra Msg3 linked to a PLU. (Setup menu → Error Process → Call tab → Error Process).
14. Modified Cassette settings to automatically change the following settings to "VARIABLE" when the Label Type is set as "CONTINUOUS" (Setup menu → Cassette).
 - PLU NAME
 - EXTRA MSG1
 - INGREDIENTS
 - EXTRA MSG3
 - FREE MSG

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15. Modified the "PLU Comm. Setting" to list PLU fields in order based on the PLU programming pages. (Program menu → PLU Comm. Setting).
16. Expanded the width of the PLU Search screen (function key 427) to fill the entire display.
17. Enabled editing Label Specs 2 to 7 on the LABEL SPEC screen. (Setup menu → Label Spec).
18. Modified Cassette settings to link with the same Label Spec number by default. (Setup menu → Cassette).
19. Changed the numbering of the POS FORMAT list from hex to decimal. (Setup menu → Barcode → POS Code tab → POS Format).
20. Added the encryption option "NONE" (Setup menu → Machine No. → WiFi tab).
21. Added default nutrition and safe handling logo images: 72, 82, 84, 86, 87, 88.
22. Updated default bakery nutrition label format 7.
23. Added default nutrition and safe handling label format: 13, 14, 15, and 16.
24. Added to ability to edit the description of a Scheduler event. (Program menu → Scheduler).
25. Added the option to print the fixed bakery weight in format "oz (lb oz)" (Setup menu → Label Format → Print Control → Fixed Wgt Format). Print examples for less than one pound and one pound and greater:
 - 15 ounces prints as "15oz (15oz)"
 - 16 ounces prints as: "16oz (1lb 0oz)"
26. Added the following messages to the Custom Barcode ID List (Setup menu → Custom Barcode).
 - Extra Msg1 [0DA]
 - Ingredients [0DB] (Renamed from "Extra Msg2")
 - Extra Msg3 [0DC]
 - Free Msg1 ~ Free Msg5 [091 ~ 095]
 - Free Msg6 ~ Free Msg15 [100 ~ 109]
27. Added support to print Extra Msg1, Ingredients, Extra Msg3, and Free Msg 1 ~ Free Msg15 in a customer barcode QR Code.
28. Modified to not display the crossed-out price when the Campaign Markdown Mode is 16: U/P and 17: Price. (Program menu → Campaign).
29. Removed the option to display the status of the individual print head elements. This is not supported by the thermal print head. (Adjust menu → Printer → Head tab).
30. Removed the Display Line feature on the PLU List screen that could inadvertently hide the first and second lines of the PLU description. (Program menu → PLU).

Version E6203G

Release Date: May 2024

Use with SLP-5 **2.62** or later ([Required](#) for compatibility)

Main: **E6202G**
Scale Driver: B0671 (E6200)
OS: Debian (10)
Printer App.: **D026A (6177)**

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.

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Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203F)

1. Changed the location and description of the FPGA APP. to PRINTER APP. (Adjust menu → Firmware Details) to comply with European OIML regulations.
2. Fixed a bug where the available memory shown on the Scale Init. screen was incorrect. It did not match the available memory shown on the Memory Clear screen.
3. Modified to not print the Calculated Unit Price when the value is 0.00. Calculated Unit Price print control setting is at: Setup menu → Label Format → Print Control → Cal. U/P Print.
4. Modified the Frequent Shopper display option in order to display two lines of the PLU Name. Note the discount price message is displayed only for the first three markdown options: 1: Special Price, 2: -\$, and 3: -%. (Setup menu → Frequent → Shopper Price Disp.)
5. Modified the Campaign.
 - a. Pressing the PLU column displays the PLU list.
 - b. Added the slash symbol ("/") to show the line break in the PLU description.
6. Fixed a bug where touching the white input square at the bottom of the Head tab (Adjust menu → Printer) displayed the input keyboard.
7. Fixed a bug where the Display Capture operation (Adjust menu) did not recognize the recommended white USB (part number 160906).
8. Fixed a bug where the \$/gram unit price was not calculated correctly.
9. Updated the Firmware Details screen to correctly display the Scale Driver Updated version (Adjust menu).

Known Issue: Attempting to print a second label by enabling "2nd Label Print" will cause the scale to lock up after the first label is printed.

Version E6203F

Release Date: March 2024

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

E6203x MAIN FIRMWARE RELEASE NOTES

Ishida Uni-8 Series PC-Based Scale

The following lists the main changes from the previous version (E6203E)

1. Corrected the markdown calculation for fixed price PLUs when initially programmed with Quantity greater than "1".

Known Issue: Attempting to print a second label by enabling "2nd Label Print" will cause the scale to lock up after the first label is printed.

Version E6203E

Release Date: March 2024

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTES:

- a) After downloading the Main program, download the FPGA Sub App program as needed.
- b) When updating from E6203D or earlier, **calibration initialization and recalibration is required** due to changes in the weight stability settings to improve print response times.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203D)

1. Fixed a bug where the Zero key had to be pressed twice to zero the weight due to excessive weight stability times.
2. Improved the print speed in Auto Print Mode that was slowed due to excessive weight stability times.
3. Fixed a bug where error 0710 "No Label" occurred when using continuous labels.
4. Modified the markdown calculation for fixed price PLUs to change with the number of pieces.
5. Updated the Label Change images to GIF for the Uni-8 (function key 243: Change Label).
6. Enabled the Label No. button in the Label Spec menu to access numbers 2 to 7.
7. Changed to display the Subnet Mask, Default Gateway, and DNS Server values when IP Auto is enabled.
8. Changed the Error Log to sort by date by default.
9. Fixed a problem where the AD message text overlapped part of the tare title on the customer display.
10. Deleted the Browser function key. It is not supported.

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Version E6203D

Release Date: November 2023

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203C)

1. Fixed a bug where the Time Zone could not be set (Adjust menu → Date Time).
2. Added the Ping to PC button to the IP Addr and WiFi tabs of Machine No. (Setup menu).
3. Fixed a bug where port numbers other than the default 55201 did not work.
4. Enabled "WPA PSK" and "WPA2 PSK" encryption options in the WiFi settings (Setup menu → Machine No. → WiFi tab).
5. Modified the markdown calculation for fixed price PLUs to change with the number of pieces.
6. Enable Back Feed for continuous labels (ADJUST menu → PRINTER → LABEL FEED tab → BACK FEED).
7. Modified to not print "0 lb" when the fixed bakery weight is less than 15 oz.
8. Changed to display video in the original ratio on the customer side display.
9. Modified to display the card savings amount below the first line of PLU description when Price Display is set as "Yes" (Setup menu → Frequent Shopper).
10. Modified the information displayed in the Error Log by the Log Level button. (Setup menu → Error Log).
 - a. ONLY ERR. -- display only error numbers under 3000
 - b. ERR. + OPE -- display all errors and operation
11. Modified to display the PLU list by pressing either the PLU No. or PLU Name column in Campaign (Program menu).
12. Added a setting to control printing the Calculation Unit Price for Weigh & Fixed Price PLUs (Setup menu → Label Format > Print Control > Cal. U/P Print).
13. Added support to print the "\$" in font sizes 14 x 10, 24 x 18, and 56 x 24.
14. Modified to prevent access to the menus in self-serve mode by pressing the Return Arrow button.
15. Fixed the calculation for the Unit Price Gram (Print ID 351) label format field.
16. Added the specification for 0/5 rounding for Fixed Price PLUs. Example:
2.28 to 2.32 → 2.30
2.33 to 2.37 → 2.35
2.38 to 2.42 → 2.40

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Version E6203C

Release Date: September 2023

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203B)

1. Added support for 60 lb multi-range weighing. Resolution is 0.01 lb from 0 to 30 lb and 0.02 from 30 to 60 lb.
2. Added support for 30 kg multi-range weighing. Resolution is 0.005 kg from 0 to 15 kg and 0.010 from 15 to 30 kg.

Version E6203B

Release Date: August 2023

Use with SLP-5 **2.62** or later(**Required** for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203A)

1. Fixed a bug where the resistance value of the thermal head was displayed as 960 ohms when it is actually fixed at 1100 ohm.

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Version E6203A

Release Date: June 2023

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

The following lists the main changes from the previous version (E6203)

1. Increased the height of the numeric values on the customer display to 9.5mm per OIML certification requirements.
2. Added preset function keys.
 - a. 541: Power Off – same operation as Power Off button at the right side of the menus.
 - b. 542: Open Price – split key, displays the current PLU status, toggles to change setting.
3. Change the following to new Print ID numbers .
 - a. 290 → 350: Weight (lb to kg)
 - b. FA → 351: Unit Price Gram
 - c. FB → 352: Unit Price Gram Title

Version E6203

Release Date: April 2023

Use with SLP-5 **2.62** or later (**Required** for compatibility)

Main: E6202
Scale Driver: B0671
OS: Debian (10)
FPGA App.: D026 (616E)

NOTE:

- a) After downloading the Main program, download the FPGA Sub App program as needed.



Caution

Memory initialization is recommended when upgrading to this firmware version. Use SLP-5 Maintenance Utility and SLP-5 to backup the scale before upgrading. Execute standard memory clear: **Master Data Clear** (Adjust menu → Memory Clear) & **System Data Init.** (Setup menu → File Save/Load → Scale Init. tab). [8.6.1921.3]

1. E6203 is the initial release of Uni-8 firmware. The firmware is based on Uni-9 C2249V.

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2. Added a setting to select either LAN or WiFi enable. This is required because the wireless is built in the main CPU board. (Setup menu → Machine No. → IP Address tab → LAN/WiFi Enable).
3. Added an option to hide the WiFi encryption password in the Machine No. menu. The Password Mask setting is accessed as follows: Setup menu → Country → 495344 PLU → Detail → 951753 PLU → WiFi tab. **Caution:** with the password hidden, use Line Delete to remove the previous password.
4. Modified to print nutrition Serving per Container as "varied" when the value is 999 regardless of the PLU type. All other values print as entered.
5. Added a setting for the initial Save function key setting at power on. Options are On or Off (Setup menu → Operation Settings → Prod. tab → Save Default).
6. Added support to change the fixed bakery weight when the number of pieces is changed by the operator. If the bakery weight is manually changed after the number of pieces, the entered weight is used as the total weight.
7. Added a PLU File Management system to control if PLU data are overwritten during communication. Use PC Comm Setting to allow or block specific PLU fields (Setup menu). Use PLU Initial Data (Setup menu) to set the value to populate any blocked field.
 SLP Receive – Yes: receive data from PC (default), No: ignore data from PC
 SLP Send* – Yes: send data to PC (default), No: do not send data to PC
 CSIS Receive – Yes: receive data from Master (default), No: ignore data from Master
 CSIS Send* – Yes: send data to Master (default), No: do not send data to Master
 * When "No" is set no value will be sent to the PC or Master scale. The comma-delimited transmission will look like the following: 123,234,,AAA,5678 where ,, indicates a skipped data field.

PLU MASTER LIST	SLP RECEIVE	SLP SEND	CSIS RECEIVE	CSIS SEND
PACK DATE PRINT	YES/NO	YES/NO	YES/NO	YES/NO
PACK TIME PRINT	YES/NO	YES/NO	YES/NO	YES/NO
PACK TIME DATE	YES/NO	YES/NO	YES/NO	YES/NO
SELL BY DATE PRINT	YES/NO	YES/NO	YES/NO	YES/NO
SELL BY TIME PRINT	YES/NO	YES/NO	YES/NO	YES/NO
SHELF LIFE(days)	YES/NO	YES/NO	YES/NO	YES/NO
...	...	...	...	...
% TARE	YES/NO	YES/NO	YES/NO	YES/NO
SECOND TARE	YES/NO	YES/NO	YES/NO	YES/NO

IMPORTANT: If the PLU file is deleted from the scale and reloaded by ScaleLink Pro or third-party scale management software any blocked fields (SLP Receive = "Yes") will not be restored. The data can only be reprogrammed at the scale or reloading from a USB backup file.

8. Added support to display and print BIG5 Traditional Chinese characters.
 - a. Chinese characters can only be sent via SLP-5; they cannot be entered or edited at the Uni-8.
 - b. Added four Chinese OTF fonts. These also support English characters.
 - 40: Noto Serif (Chinese) Bold Full <OTF>
 - B0: Noto Serif (Chinese) Bold Half <OTF>
 - 41: Noto Sans (Chinese) Bold Full <OTF>
 - B1: Noto Sans (Chinese) Bold Half <OTF>

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- c. Chinese and English characters are printed at a fixed size based on the OTF font and the Font Height set in the text field of the label format. The size set in SLP-5 is not used. Testing suggests these settings work well:
 - PLU Description
 - Font Size: FA External Font Reference (FA)
 - Font Family: Noto Sans (Chinese) Bold Full (31)
 - Font Height: 1B
 - Font Type: No Attribution (00)
 - d. It is not necessary to set the code as "chinese" and enable Chinese fonts but it will eliminate the message "The description text contains characters that are not supported by the selected font."
 - e. Chinese and English characters can be mixed on the same line if a standard font size is used.
9. Added support to display and print Korean characters.
- a. Korean characters can only be sent via SLP-5; they cannot be entered or edited at the Uni-8.
 - b. Added four Korean OTF fonts. These also support English characters.
 - 30: Nanum Gothic (Korean) Full <OTF>
 - A0: Nanum Gothic (Korean) Half <OTF>
 - 31: Noto Sans (Korean) Bold Full <OTF>
 - A1: Noto Sans (Korean) Bold Half <OTF>
 - c. Korean and English characters are printed at a fixed size based on the OTF font and the Font Height set in the text field of the label format. The size set in SLP-5 is not used. Testing suggests these settings work well:
 - PLU Description
 - Font Size: FA External Font Reference (FA)
 - Font Family: Nanum Gothic (Korean) Full (30)
 - Font Height: 1B
 - Font Type: Bold (02)
 - d. It is not necessary to set the code as "korean" and enable Korean fonts but it will eliminate the message "The description text contains characters that are not supported by the selected font."
 - e. Korean and English characters can be mixed on the same line if a standard font size is used.
10. Modified Case Weight PLUs to allow manual entry of the weight even if Open Price is set as "No".
11. Fixed a bug where printing position of True Type Font (TTF) characters was out of alignment.
12. Add support to print gram unit price.
- a. FA: Unit Price Gram
 - b. FB: Unit Price Gram title
13. Updated the Shop No. (21) function key to allow entry of a different store number. Entry values are 1 to 9999. Only valid store numbers can be entered. This is a permanent setting equivalent to setting the Set Store operation (Program menu → Store).
14. Added support for network connection error detection. This is similar to the standard comms check as it pings the "PC IP Address" and is performed based on the time set in "Comm Check Period". But if there is no connection a "SCALE IS OFFLINE" error is displayed. The default and recommended setting is "Disable" to avoid nuisance errors if

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the network is temporarily unavailable. (Setup menu → Machine No. → PC Comm tab → LAN Connect Check).

15. Increase the number of digits for Total Price and Unit Price to eight.
16. Added "Weight (lb to kg)" label format field (Print ID: 290). Depending on the decimal position either kg (3) or gram (0) values can be printed.
17. Added support to store communication logs for three days. Communication logs are stored with host systems internally. Expired logs are deleted and replaced when new logs are created.
 - a. File Name format: CYYMMDD.CSV
 - b. Data format: Time + Sent/Received + XX byte + received data format
18. Added support for QR Code.
 - a. Data in the QR code is configured in a custom barcode.
 - b. The size of the QR code increases based on the amount of data.
 - c. If the QR Code dimensions exceed the "Code Range" value (mm) it does not print. There is no error.
 - d. The QR Rate is a size multiplier. Typical values are 3 to 5 depending on the data.

Name	Detail	Initial Value
UNIT TYPE	QR CODE: REFERENCE	37
PRINT ID	CUSTOM BARCODE (QR): REFERENCE	77
X-AXIS	Able to set to X direction width by 0.1mm	0
Y-AXIS	Able to set to Y direction height by 0.1mm	0
PRINT FLAG	FF:Data top 0:NUM 1:E-NUM 2:BIN 3:KANJI	FF
QR RATE	Able to set 1-09 (dot/cell)	3
QR MODEL	00:MODEL1 01:MODEL2 02:MICRO QR	01
CORRUPT	00:7% 01:15% 02:25% 03:30%	01
CODE RANGE	Able to set 0-999 by 0.1mm(1width)	100
CUSTOM	CUSTOM BARCODE Master No.(0-99)	0



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