

- EPL

- Release Highlights

- LP / TLP 2824

- Enhancements and changes of firmware version 4.23 to 4.41





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● EPL

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• Enhancements	• Description
• Improved Error Reporting	• The printer now reports “Head-up error” status (Code 11) and “No gap detected” (Code 07) via the serial port.
• Gap -Blackline Sensor	• Default values have been changed so that media sensing is more accurate.
• Printhead Temperature Monitoring	• The algorithm monitoring the printhead’s thermal condition has been modified to accommodate longer print jobs.
• Line Mode Cutter Support	• Several commands have been implemented to allow the printer to use the cutter option when the printer is used in Line Mode. The commands <esc>c, and <esc>C have been created. Refer to the Line Mode Programmers Manual for details about the commands and parameters.
• ZB/ZT Command	• ZB/ZT status is now saved and restored after power up. The current setting is also reported on the Configuration label.
• “Tap to Feed”	• It is now possible to abort during a “Tap to Feed” operation. If the feed button is held down for more than 1 second, the current print job will be aborted.
• Image Clearing	• The image clearing algorithm is more intelligent and is faster than previous versions of firmware.

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- RSS and Data Matrix Bar Codes
 - New bar code symbologies have been added. The printer supports four types of RSS Bar Code (RSS-14, RSS Limited, RSS-14 Truncated, and RSS Stacked) and Data Matrix 2 Dimensional Bar Code. This capability is not available in the standard firmware but is available as a free download from the Zebra web site. Refer to the EPL 2 Programmers Manual for details about the commands and parameters.
- Additional Code 128 Bar Code
 - A new type of Code 128 bar code has been incorporated. Bar code type "1D" is a Code 128 code with a Deutsche Post check digit.
- PLANET Bar Code
 - The PLANET Bar Code of the US Postal Service is now supported. A new "PL" type is incorporated in the B Command.
- Double Buffer II
 - The double buffering feature has been enabled when using Line Mode.
- UT Command
 - When activated, this new command allows the printer to report to the host computer the status of a print job when an out of media error occurs. It reports the number of labels remaining to print and the number of raster lines not printed. The configuration label will report if UT is enabled.
- OT Command
 - When enabled, the new OT command will cause a TLP2824 printer to initialize in the "Forced Ribbon" mode. This will result in an immediate ribbon out error if there is no ribbon installed and a print operation is initiated. OT mode will cause a "T" to be listed on the options line of a configuration label.
- OP – Enable Label Peel/Dispense Mode
 - When this option is set , the printer will initialize to label peel/dispense mode. When enabled, its status will be printed on the configuration label.
- ACK/NAK Reporting
 - In cutter mode, the printer now reports a single ACK, not two ACKs, after each label was printed. When paper empty error occurs, no additional bytes are sent following the NAK.

- ^default Command
- Added a new command restore to factory defaults. This eliminates the requirement to re-download firmware to the printer in order to restore the original settings.
- ^ee, ^@ Commands
- The printer will now check the data coming into the USB port for ^ee (error reporting) and ^@ (reset) commands. The printer checks the data stream to make certain that these commands are not unintentionally embedded data strings of text, barcode, graphics commands or downloaded fonts.

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• Fixes	• Description
• Configuration Label	• The configuration label now properly reports "L" in the model number, to indicate that it supports Line Mode.
• Small Label printing	• The printing on small labels, less than 1 inches high, has been improved. Additionally, this advanced algorithm more accurately locates the image when printing on multiple small labels. Other improvement to the firmware enables the printer to use small jewelry labels more efficiently.
• Media Handling	• Several improvements have been made in the printer's ability to position images on black line and gap media, to align the labels to the tear position, and locate the media during cutting.
• Label Autosense Routine	• Autosensing media during Power-On has been changed so it offers improved accuracy on a wider range of media.
• Port Lock Out During Firmware Download	• While the printer accepts a new firmware download, it locks out communication on the unused ports to prevent interruptions and potential corruption of the printer's flash memory.
• Windows™ Ring Buffer Mode Support	• A new algorithm for printing in Ring Buffer mode with Zebra Windows™ driver (Version 3.99 or previous) is now incorporated. This

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feature allows for printing of formats up to 54 inch long.

- Font Position in Rotations
 - Cover Open Sensor Calibration
 - Ribbon Detection
 - xa Autosense Command
 - eR*,2
- Improved the accuracy of positioning fonts in 90° and 270° rotations and using multipliers
 - The sensor calibration routine has been enhanced to handle a wider range of sensors. This will allow proper detection of cover open and cover closed. Modified the configuration report to include the head-up sensor threshold and current reading, in the following form: "Cover: T=xxx, C=yyy", where xxx = threshold value established during calibration, and yyy = current sensor reading. If the reading falls below the threshold, a head-up error will result.
 - The printer's ribbon detection algorithm has been improved to sense ribbon more quickly and reliably. Also, additional rewind time has been added to enable the printer to take up slack in back-up mode and following cover open.
 - Implemented new xa autosense calibration feature, which accepts two optional parameters for known label and gap lengths. If the parameters are present, xa will compare the given parameters with the measured lengths and store a calibration adjustment value into non-volatile memory.
 - Corrected the failure of the "eR*,2" command (user defined error/status character) that caused the printer to reset when it reported an error condition.