



QL Plus and RW Firmware Release Notes

This document summarizes the following firmware releases:

Firmware Release Number	Release Date	See Page
11z27	08 September 2010	page 2
11p10	07 May 2008	page 2
10z	03 October 2007	page 4
10m	02 July 2007	page 4
10g	23 April 2007	page 5
04u17-5	24 January 2007	page 5
04u17-3	12 December 2006	page 6
04u17	03 November 2006	page 6

Hardware Requirements:

This firmware requires one of the following Zebra Mobile Printers:

QL 420 Plus (Q4C-XXXXXXXX-XX)

QL 320 Plus (Q3C-XXXXXXXX-XX)

QL 220 Plus (Q2C-XXXXXXXX-XX)

RW 420 (R4A-XXXXXXXX-XX)

RW 220 (R2A-XXXXXXXX-XX)



Note: This firmware does not run on the older QL (H8 based) series printers (QXA-XXXXXXXX-XX or QXB-XXXXXXXX-XX). It also does not run on the newer QXD-XXXXXXXX-XX platforms.



Loading a QXC/RXA release on a QXA, QXB, QXD, RXD or any other model is not supported, will make the printer inoperable, and could make it unable to revert back to a previous version. Check the label on the back of the printer to determine the model number.

Firmware Releases:

11z27

Release date: 08 September 2010



Note: This release does not support EPL or APL-I Emulations or Asian fonts. It should not be used by customers that need these features.

Enhancements

- Improved label present sensor algorithm [4686].

Issues Corrected

- Bluetooth encryption not indicated properly in 2-key report when authentication is enabled [0640].
- Bluetooth not printing correctly from CipherLabs terminal [3416].
- Improved Bluetooth operation.
- 802.11 unable to perform EAP-FAST authentication with Cisco 2106 [3669].
- 802.11 radio can occasionally lock up [4776].
- 802.11 improper TCP handshake, occasionally not setting SYN flag in acknowledgement packets [5258].
- 802.11 authentication failed with PEAP on IAS2008 server [5620].
- 802.11 not properly responding to duplicate SYN's [6373].
- 802.11 change default wlan.keep_alive value to "on".
- Grinding and compressed print on Q4C [3977].
- CPCL resident font corruption after print line using A124200.FNT [3302].
- ZPL graphic only prints 15 times then stops [2884].
- ZPL ~JS or ~SD commands causes printer to hang [4434] [4440].
- ZPL data on 2-key report is not in sync with ZPL ~WC and ~HS commands [3408].
- ZPL CFG file appears to execute before CPCL CONFIG.SYS [3313].

11p-10

Release date: 07 May 2008



Note: This release does not support APL-I Emulations and should not be used by customers that need these features.

Enhancements:

- (Bluetooth 2.0): Improved BT throughput on the RW by removing credit limits.
- Added support for the Secure File Transfer Protocol (SFTP) for use with mirror (see below for instructions).
- Added support to shutdown active Bluetooth connection when “device.reset” command is issued.
- Added event and roam logging.
- (Netmanage): Added AMC 4.4 support.
- (Netmanage): Made changes to apply network profile function.
- Update to handle 2048 byte keys and to check for duplicate EAP identifier numbers.

Instructions for using Secure FTP with mirror:

To use SFTP during mirror, set the “ip.mirror.mode” parameter to “sftp” using the SGD command. The value can either be “ftp” or “sftp” with the default being “ftp”.

Issues Corrected

- (ZPL) fixed ID Matrix barcode.
- Fixed line printing for receipts exceeding 161 inches.
- Enhanced signal strength, roaming support, and power save responsiveness for the Zebra value 802.11g radio.

Additional information regarding the improvements to the Zebra 802.11g radio:

This software release improves the internal signal strength reporting for the Zebra 802.11g radio. These enhancements improve the printer’s operation in areas with weak signals. As a result of these changes the printer should roam less frequently.

Additionally, changes to the radio’s power-save algorithm have been made which will also result in improved performance. Note that the power-save behavior is affected by settings on both the access point and the printer. In particular, it should be noted that access point settings have a direct relationship on wireless device sleep periods.

10z

Release date: 03 October 2007

Enhancements:

- Added ability to download applications via Bluetooth.
- On the LCD blink the arrow icon for data transmission instead of the light icon.
- Update for determining TLV PEAP package in tunnel.
- Added roam logging for G radio.

Issues Corrected

- (WPA2): Fixed issue with connecting to Cisco WLAN Controller Network.

10m

Release Date: 02 July 2007

Enhancements

- Added support for IPL.
- Made required changes for the new IrDA chip.
- Added ability to return the Magnetic Card Reader data of previous swipe.
- (Avalanche): Increased the number of available properties to 128.
- (ZPL Emulation):
 1. ^HH command uploads ZPL config settings
 2. Added SGD ZPL commands:
 3. zpl.calibrate-calibrates printer (same as ^JC)
 4. zpl.save-saves ZPL settings
 5. ZPL 2-key changes:
 6. Remove actual Label Length
 7. Added Print Width

Issues Corrected

- Fixed font numbering issue which was causing font 2 to not print.

10g

Release Date: 23 April 2007

Enhancements

- (EAP-TLS): Added logic to prevent repeated PAP challenge responses.
- (EAP-TLS): Update to work with SBR server. The SBR was suggesting TTLS for inner authentication; this is now NAK'd. The update will now NAK all inner requests besides MSCHAPv2.
- Version 4.07 -- Added VERBOSE option to Magnetic Card Reader (MCR).
- POP3 enhancements to handle out-of-paper and HTML text-encoding (don't print it).
- (WPA): Symbol radio now uses 16-bit writes when writing the MIC.
- Added support for turning on the option for sending an IP packet when roaming.
- Changed TCP socket behavior so a duplication connection does not immediately disconnect the previous connection. It will only happen after 30 seconds.
- WPA2 Broadcast key rotation for both AES and TKIP.
- (MCR): Version 4.08 --Added setvar "mcr.out". This setvar command will be used to send MCR data from the printer to a particular destination either by TCP, SRF, or SERIAL.
- Changed the interrupt priority of the Bluetooth port.
- (ZPL): UPC/EAN barcodes: Initialized mode to 1 in parse function so interpretive field prints correctly -- first character outside of barcode.
- (IRDA): New chip replacing an obsoleted chip on the IrDA module board, required software changes.
- (NetManage): Support savign GUID into non volatile memory.
- (WPA): Added support for wlan.wpa.wpa_version, wlan.wpa.groupkey_ciphersuite, and wlan.wpa.pairwise_ciphersuite.

Issues Corrected

- (ZPL): Recalling formats from flash containing barcode fields -- no data was being included in barcode.

04u17-5

Release Date: 24 January 2007

Enhancements

- (Avalanche): Changes made to _devprop.prf file e.const part of each property starts on the new line.
- (WPA): EAPOL START is sent if AP does not start EAP handshake within 5 seconds after association.

Issues Corrected

- (Avalanche): Fixed buffer overflow that prevented unit from resetting.
- (Avalanche): Corrected UDP malformed packets.

04u17-3

Release Date: 12 December 2006

Enhancements

- 802.11g radio: Added user configurable parameter for roam signal and interval.

Issues Corrected

- n/a

04u17

Release Date: 03 November 2006

Enhancements

- New Symbol Radio Firmware 3.91-80.
- Changed wlan.keep_alive.enable default to be OFF.
- Improved PowerSave and Roaming with 802.11g radio.

Issues Corrected

- n/a