



Release Notes

Firmware v12.4.0

for PB22 & PB32 Rugged Mobile Label Printers

October 2015

Overview

Firmware series 12.x provides printing functions for PB22 & PB32 rugged mobile label printers

In release v12.4.0:

- Corrected minor issues with C Sim, ZSim and DSim
- Corrects issues with driver performance
- Corrects issues with various font sets.
- Corrects display order of Band Options
- Corrects minor issues in Fingerprint
- Corrects minor issue with the data transmission with Wi-Fi
- Corrects minor issue with activation of the antenna with external setting selected
- Corrects minor issue with upgrading firmware using SmartSystem.

Supported Command Languages

This release contains support for Fingerprint, Direct Protocol, IPL, CSim, DSim, ESC/P and ZSim.

Supported Hardware

All PB22 & PB32 configurations are supported

This document also contains instructions to upgrade the firmware using a serial connection.
This document also includes information related to upgrading the firmware of the Wi-Fi Module.

Please refer to the online help or the printer user manual for additional information on the features and use of firmware v12.4.0 with your printers.

Version 12.4.0 Key Features

New Functionality

Support for Enhanced Wi-Fi Module

An upgraded Wi-Fi module has been applied to some configurations in order to comply with the new EU Radio Compliance Standards. As a result, the following enhancements have been added as a part of that Wi-Fi module for specific skus:

- Supports 5GHz wireless band for PBx printer with new Wi-Fi module.
- Supports Wi-Fi Direct Mode
- Supports WPA/WPA2 MIXED Mode with new Wi-Fi Module
- Supports EAP-TLS authentication
- Improved Wi-Fi stability and roaming performance
- Support SHA2 certification

Enhancements to CSim & ZSim

CSim now supports graphics command CG and Aztec barcode. ZSim now supports Cyrillic font and ^GFB for binary graphic format.

Changed Functionality

The following issues have been resolved:

Updated CSim, ZSim and DSim

The versions of CSim, ZSim and DSim were updated to correct issues related to the older version.

Wi-Fi Firmware Updated

The Wi-Fi Firmware was updated to correct related to connection issues with EAP-FAST and PBWU-243

Additional improvements allow for access from webpages when in WEP128bit network.

Debug Information Removed

Issues related to use of Avalanche with Printset4 were resolved with removal of Debug information

Firmware Upgrade with SmartSystems

Applied adjustments to remedy issues with firmware updating.

Error Indicator

Added error indicator to show when the printer is not able to connect to an AP at bootup.

Known Limitations

The following are known issues with this firmware release as it relates to the Wi-Fi Module used.

Updated Wi-Fi Module Limitations

- The new Wi-Fi module does not support certificates with key size of 4096 bits.
- The new Wi-Fi module does not support EAP-FAST with Radius server in TLS extension environment.
- The new Wi-Fi module does not support SHA-384 encryption.

About Upgrading Printer Firmware

You should check for periodic updates to your printer's firmware. Updated versions can include bug fixes or additional features that may be useful.

To upgrade Firmware

- Visit the **Honeywell** website (<http://www.honeywellaidc.com>) and then navigate to your printer product page under **Intermec by Honeywell** listing mobile printers.
- Follow the instructions from the PB22 / PB32 user guide to upgrade your printer.
- In upgrading your firmware, note the following

Serial Port

The printers can be upgraded via serial port interface.

Connect the printer to a COM port using Intermec serial cable and run HyperTerminal (or compatible) with matching serial settings. Default printer settings are:

- Baud rate = 9,600, Data Bits = 8, Parity = none, Stop Bits = 1, Protocol = none. For faster upgrade, change the baud rate to 115,200.

Fingerprint:

Follow the following steps:

- a. In HyperTerminal, type run "su -p pass admin"
- b. Type run "dlk -z"
- c. The printer's display will show upgrading
- d. In HyperTerminal click on Transfer / Send File. Change the Protocol to Zmodem and then browse to the .bin firmware file and click Send.
- e. HyperTerminal will reply "kernel flashing ok" if the firmware upgrade is successful, followed by a reboot.

IPL:

Follow the following steps:

- a. In HyperTerminal, type <STX><ESC>.y,su -p pass admin<ETX>
- b. Type <STX><ESC>.y,dlk -z<ETX>
- c. The printer's display will show upgrading
- d. In HyperTerminal click on Transfer / Send File. Change the Protocol to Zmodem and then browse to the .bin firmware file and click Send.
- e. HyperTerminal will reply "kernel flashing ok" if the firmware upgrade is successful, followed by a reboot.

Wi-Fi Module Firmware Upgrade

The firmware of Wi-Fi module in the printers need to be upgraded. The upgrade procedure is as below:

- a. Upgrade the firmware to the printer
- b. After reboot, connect printer to PrintSet
- c. In PrintSet, select "Files"->"c", right click on "c"
- d. In prompt menu, select "Add File". Navigate to the folder contains the firmware of Wi-Fi module with the name of "wifi_fw.rps" (Note: Do not change the file name)
- f. Click "Apply" to add the file to printer.

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- g. Reboot the printer and Wi-Fi firmware upgrade will automatically start. The upgrade will last about 15 minutes and after the upgrade is done, a message “Manually Restart” will be shown on the LCD.
- h. Reboot the printer.