



xPico® WiFi®

Firmware Upgrade Guidelines

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Overview

Prior to January 2014, all Lantronix® xPico® Wi-Fi® embedded wireless device servers were preloaded and shipped from the factory with firmware version 1.0.0.0R7 (Production Release 1).

Intermediate Beta firmware releases were also available as part of the xPico Wi-Fi rollout process. As Beta releases are still undergoing testing, they should be used for evaluation purposes only.

The following table summarizes the xPico Wi-Fi codes to date.

Description	Date	Application Firmware Version
Production Release 1	June 2013	1.0.0.0R7
Release 2, Beta 1	August 2013	1.1.0.0R3
Release 2, Beta 2	October 2013	1.1.0.1R6
Release 2, Beta 3	December 2013	1.1.0.2R5
Production Release 2	January 2014	1.1.0.2R10

OTA Firmware Upgrade Procedure

The OTA process is initiated when a user clicks **Firmware Upload**.

In a situation where significant change to the format and partition of the device is required, the xPico Wi-Fi supports a two-step process. This is not normal and is ONLY used when indicated. Upgrade instructions will indicate when a two-step procedure is necessary

Detailed Device Upgrades

Perform an xPico Wi-Fi firmware upgrade using the steps below.

Production Release 1 to Production Release 2

To upgrade from Production Version 1 (1.0.0.0R7) to Production Version 2 (1.1.0.2R10) update both the bootloader and OTA upgrade loader.

1. Connect to the xPico Wi-Fi Web Manager.
2. From the **System** page in Web Manager, click **Firmware Upload**.
Note: in Production Release 2 this changes to the Device page
3. When the **Upgrade** page appears, select and upload the autoloader ROM image file (stm32f2xx_ota_autoloader_1.1.0.0R9.rom).
4. When the upload is complete, reboot the xPico Wi-Fi device. The autoloader will automatically upgrade both the bootloader and the OTA loader onboard the SPI flash.
5. When the autoloader is finished upgrading, it presents a webpage to allow upgrading the application firmware. Click **Firmware Upload**.
6. To install the application ROM image, enter the Production Release 2 ROM Image file (xPicoWifi_1.1.0.2R10.rom).

7. Once the upgrade is complete, remove all power from the xPico Wi-Fi embedded device server for at least 60 seconds and then restart.

Release 2, Beta 1 or Beta 2 or Release 2, Beta 3 to Production Release 2

Upgrading from any Release 2 Beta code (Beta 1, Beta 2 or Beta 3) requires an update to both the bootloader and OTA upgrade loader. This requires that the user follow steps described in [Production Release 1 to Production Release 2](#) above.