

# **Application Note:**

xPico 200® Series Partition Size Changes



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Part Number APP-0004

Revision A July 2019

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This equipment has to be tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

1. Reorient or relocate the receiving antenna.

- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device is intended only for OEM Integrators. The OEM integrator should be aware of the following important considerations.

## **Revision History**

Date	Rev.	Comments
July 2019	Α	Initial document.

For the latest revision of this product document, please check our online documentation at <a href="https://www.lantronix.com/support/documentation">www.lantronix.com/support/documentation</a>.

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#### **Overview**

This document provides information on changes to the partition sizes of Lantronix<sup>®</sup> xPico<sup>®</sup> 200 series devices when upgrading to firmware version 3.3 or later from previous versions.

## **Partition Changes**

The xPico 200 series uses four partitions – firmware partition 1, firmware partition 2, file system partition 1, and file system partition 2. Firmware version 3.3 increases the size of the firmware partitions and shrinks the size of the file system partitions to 1507328 bytes. After upgrading to firmware version 3.3, downgrading to a lower version firmware will not increase the size of the file system partition.

The size of the firmware partitions can only be increased when the active partition is firmware partition 1. If the active partition is firmware partition 2, they cannot be increased. Conversely, they can only be decreased when the active partition is firmware partition 2. If the active partition is firmware partition 1, they cannot be decreased. Because of this, upgrading from a lower version firmware to 3.3 or higher is only possible when firmware partition 1 is the active partition.

## **Determining the Active Partition**

You can find the active partition using Web Manager in **Device > Status**, using CLI by using the show command from the status device level, or using XML by checking the *statusitem* Active Partition in *statusgroup* Device.

# **Upgrading to Firmware 3.3 or Higher**

If you attempt to upgrade to firmware 3.3 or higher with firmware partition 2 active, you will see the following error in Web Manager:

ERROR: Upgrade failed.

Cannot install to alternate partition. You must first install an image to the non-active partition that has the same partition size (or smaller) as the active partition.

The easiest way to do this is to re-install the existing firmware image.

Follow these steps to upgrade to firmware 3.3 or higher from a lower version when firmware partition 2 is active:

- 1. Install the same firmware that is currently on the xPico 200 module again. For example, if the xPico 200 module is using firmware 3.2, install 3.2 again.
- 2. After the firmware installation is complete, the active partition will be partition 1.
- 3. Install firmware 3.3 or higher.

## **Downgrading from Firmware 3.3 or Higher**

If you attempt to downgrade from firmware 3.3 or higher to firmware 3.2 or lower when firmware partition 1 is active, you will see the following error in Web Manager:

ERROR: Upgrade failed.

Cannot install to alternate partition. You must first install an image to the non-active partition that has the same partition size (or smaller) as the active partition.

The easiest way to do this is to re-install the existing firmware image.

Follow these steps to downgrade from firmware 3.3 or higher to firmware 3.2 or lower when firmware partition 1 is active:

- 1. Install the same firmware that is currently on the xPico 200 module again. For example, if the xPico 200 module is using firmware 3.3, install 3.3 again.
- 2. After the firmware installation is complete, the active partition will be partition 2.
- 3. Install firmware 3.2 or lower.