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## **XBee 3 RF Bootloader Release Notes**

### **XBee 3 RF Bootloader**

**Version 1.11.2 (June 11, 2021)**

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### **INTRODUCTION**

These release notes document changes made to the Bootloader on the XBee3 RF modules.

### **SUPPORTED HARDWARE**

- XB3-24 - XBee 3 2.4 GHz radio module
  - Micro (MMT)
  - Surface Mount (SMT)
  - Through Hole (THT)

### **SUPPORTED SOFTWARE**

- [XBee 3 Zigbee](#)
- [XBee 3 DigiMesh 2.4](#)
- [XBee 3 802.15.4](#)

### **KNOWN ISSUES**

1. If an XMODEM upload is cancelled, module must be rebooted in order to start a new upload.  
*[XB3BOOT-48]*

### **UPDATE CONSIDERATIONS**

XCTU (XBee Configuration and Test Utility) is recommended for updating the firmware of your radio module to the latest firmware version: [www.digi.com/xctu](http://www.digi.com/xctu)

The XBee 3 RF bootloader is based on the Gecko Bootloader from Silicon Labs and is field updatable. A

bootloader updated can be performed over the serial port using the supplied \*.gbl file or over the air when combined with the application image in a .OTB file.

Performing a bootloader update over the serial port will erase the XBee application software but configuration will be retained. After the bootloader has been updated, you will also need to update the XBee application software over the serial port.

Some versions of the XBee application software require a minimum bootloader version, this will be specified in the software release notes as well as the XML configuration file used by XCTU. This requirement is not enforced by the XBee, but unexpected behavior may occur if the requirement is not met.

The XBee 3 bootloader cannot be downgraded. This means that after updating the bootloader, there is no reverting back to a previous version.

If you are running bootloader version 1.6.x or newer, you should avoid using the initial software releases (ZigBee version 1003, 802.15.4 version 2000, or DigiMesh version 3000). These are intended to be used with bootloader version 1.1.8. (OTA firmware updates will not be functional with the old firmware and the new bootloader.)

Upgrading from Bootloader version 1.1.x to 1.6.x must be done over the serial port and the device configuration will be lost in the process. After the bootloader is updated, the application should be updated. Thereafter, firmware and bootloader updates can be done over the air using OTA and OTB files.

The following files are included in XBee 3 RF bootloader releases:

- Firmware
  - GBL: Bootloader image for updates over serial port
  - TXT: Release Notes

## TECHNICAL SUPPORT

Get the help you need via our Technical Support team and online resources. Digi offers multiple support levels and professional services to meet your needs. All Digi customers have access to product documentation, firmware, drivers, knowledge base and peer-to-peer support forums.

Visit us at <https://www.digi.com/support> to find out more.

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## CHANGE LOG

### 1.11.2 XBee3 RF Bootloader (June 11, 2021)

- This is a recommended release

#### BUG FIXES

1. Removed option 3 from the bootloader menu, as it had no associated functionality [*XB3BOOT-2*]

## ENHANCEMENTS

1. Changes to support a new hardware revision of the Xbee 3 module. The hardware revision can be determined by querying the %C AT command. Modules with a %C value of 2 or greater cannot run bootloader versions prior to this release.
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### 1.8.1 XBee3 RF Bootloader (April 10, 2019)

#### SECURITY FIXES

1. Improved ECDSA signature check which provides protection against fraudulent firmware update images.
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### 1.6.6 XBee3 RF Bootloader (September 26, 2018)

- This version of the bootloader is required to support ZigBee version 1006, 802.15.4 version 2003, and DigiMesh version 3002.
- The locations and sizes of the application, the storage slot, and the configuration changed between version 1.6.6 and the previously released bootloader (1.1.x). This was done to optimize storage space to allow for the largest possible MicroPython application size. This means that configuration information will be lost upon upgrading to version 1.6.6 of the bootloader.

#### NEW FEATURES

1. OTA firmware update support for DigiMesh, 802.15.4, and ZigBee
2. OTA bootloader update support when combined with application image

#### ENHANCEMENTS

1. LZMA compression, which reduces image size by about 30%
  2. Improved bootup time (now instantaneous compared with about 2 seconds previously)
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### 1.1.8 XBee3 RF Bootloader (March 22, 2018)

#### BUG FIXES

1. Fix for a brownout issue [*XB3BOOT-3*]
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### 1.1.7 XBee3 RF Bootloader (November 16, 2017)

#### NEW FEATURES

1. Initial release

*Release Notes Part Number: 93001314*