XBee LPX 900 Release Notes

XBee LPX 900

Version 8000 - (July 5, 2024)

INTRODUCTION

These release notes document changes made to the DigiMesh firmware on the XBee XR MMT 900 modules.

- Product Information
- Documentation
- Support

SUPPORTED PRODUCTS

- XBee-LPX 900 - XBee LPX 900 MHz radio module
  - Micro (MMT)
  - Surface Mount (SMT)
  - Through Hole (TH)

KNOWN ISSUES

1. The Diagnostic counts for transmissions (**EA** and **TR**) are not always as expected because sometimes there is an extra network retry. *[XBHAWKDM-200]*

2. The **FT** flow control threshold may not be calculating number of bytes properly. If **FT** is set to too low of a value (less than 0x20), CTS will assert indefinitely. *[XBHAWKDM-611]*

3. Duplicate packets can occur if streaming unicast data across multiple synchronous sleep cycles. *[XBHAWKDM-739]*

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

The following files are included in XBee XR 900HP firmware releases:

- Firmware
  - .gbl: Firmware image for OTA/serial updates. This image will also upload the bootloader if the included version is newer than what is currently installed on the device. It is recommended to use this file for most updates.
  - .apponly.gbl: Firmware image for serial updates, excluding bootloader updates. This image contains the firmware, but no bootloader upgrade data. This image may be used when a bootloader upgrade is not desired. Note that it is not recommended to use any firmware image with a bootloader version older than what the image was released with.
- Configuration
  - MXI: Legacy X-CTU configuration file
  - XML: XCTU-NG configuration file

UPDATE BEST PRACTICES

Digi recommends the following best practices:

1. Test the new release in a controlled environment with your application before you update production devices.
2. Unless otherwise noted, apply updates in the following order:
   1. Device firmware
   2. Modem firmware
   3. Configuration
   4. Application

Digi recommends Digi Remote Manager for automated device updates. For more information, go to https://www.digi.com/products/iot-platform/digi-remote-manager.
If you prefer manually updating one device at a time, follow these steps:

Serial firmware updates:
Invoke the bootloader using one of two methods:

#TODO: Update links below with links to XR documentation

- Issue the **%P** AT Command
- Using hardware flow control lines

Interface with the bootloader at 115200 baud and transfer a bootloader or firmware image as per the user guide.

An XBee MultiProgrammer is available for serial firmware updates in a production environment.

The XBee Network Assistant can be used to manage your network and optimize it's configuration prior to performing an OTA update.

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.

CHANGE LOG

8000 - XBee LPX 900 (July 5, 2024)

- This is the initial release
- Bootloader version: 1.11.9
- Hardware revision A

NEW FEATURES

- N/A

ENHANCEMENTS

- N/A

SECURITY FIXES

- N/A

BUG FIXES

- N/A

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