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Digi XBee 3 North America LTE Cat 1 Release Notes

Digi XBee 3 North America LTE Cat 1

Version 41519 (April 2022)

INTRODUCTION

These are the release notes for Digi XBee 3 North America LTE Cat 1.

SUPPORTED PRODUCTS

- Digi XBee 3 North America LTE Cat 1

KNOWN ISSUES

1. In order for SMS receipt to work on Verizon Wireless, the SIM card must be configured for CDMA-less SMS.
2. The cellular component resets and network connectivity is briefly lost if TCP receive buffers become full. Workaround: avoid connecting to services which transmit 16 KB or more at a time. This will be fixed in a future release from the cellular component vendor. [XBCELL-8393]
3. SMS messages with payload size of 126 bytes or larger cannot be transmitted. This will be fixed in a future release from the cellular component vendor. [XBCELL-8469]
4. Network time (ATDT, time.time()) sometimes does not populate. [XBCELL-8417]
5. Cellular component firmware updates using delta files with the 0x2B API frame fail if **ATCP** is not set to 1. This will be fixed in a future release from the cellular component vendor. [XBCELL-8325]
6. A new TCP connection created quickly after a prior connection was closed may cause connectivity loss. Workaround: delay several seconds after any connection is closed before opening a new connection. This will be fixed in a future release from the cellular component vendor. [XBCELL-8491]
7. TCP connection attempts which receive a RST packet are reported as "connection timed out" rather than "connection refused". This will be fixed in a future release from the cellular component vendor. [XBCELL-8402]
8. Incoming connections to a TCP listener socket may fail if several client connections are already open. Workaround: avoid having multiple incoming connections open at once. This will be fixed in a future release from the cellular component vendor. [XBCELL-8332]

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/Module 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: 1. Update to latest firmware from XCTU

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

41519 (April 2022)

This is a recommended release.

NEW FEATURES

1. Initial release
2. Key features:
   - Digital I/O support.
   - Analog Input support.
   - API & Transparent mode
   - AT command mode
   - By-pass to raw cellular module
   - SMS
   - TCP/UDP (up to ten sockets)
   - TLS/TCP (up to six socket)
   - Incoming connections
   - Carrier and bandmask configurations
   - MicroPython!
     - On-device programmability to add local intelligence.
     - Many examples in the Digi MicroPython Programmer Guide.
     - AT commands for managing run-time behavior.
   - Filesystem support
     - ATFS command to access through AT command mode

- API frames to access through API mode
- MicroPython file interfaces for programmatic access
- Supports filesystem access through Digi Remote Manager
- Provides MicroPython module import support
- Allows storage of TLS certificates for MicroPython
- Secure encrypted file storage to protect MicroPython code and TLS private keys
  - Digi Remote Manager
  - Bluetooth Low Energy (BLE)
    - Send a subset of API frames to the XBee through the encrypted BLE API Service
    - Configure the XBee 3 Cellular using the Digi XBee Mobile app for Android and iOS.
    - Use MicroPython to scan for advertisements, connect to peripherals and interact with connected devices.
  - Low power modes
    - Deep sleep mode.
    - Pin sleep support.
    - Cyclic sleep support.
    - Airplane mode sleep support.
  - Digi TrustFence secure boot
  - Direct USB
  - SMS UTF-16/UCS-2 encoding support.
  - Able to operate on 3G and LTE networks.

*Release Notes Part Number: 93001364