

XBee Cellular LTE Cat 1 Verizon

Customer Release Notes

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Overview:

These release notes document changes made to the Digi XBee Cellular LTE Cat 1 Verizon.

Compatible Hardware:

- * Digi XBee Cellular LTE Cat 1 Verizon

Links:

[Product Information](<https://www.digi.com/lp/digi-xbee-cellular>)

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Release Version:

- * 100A - XBee Cellular LTE Cat 1 Verizon

Release Date:

- * 2017-December-8

New Features:

- * **IMPORTANT:** This new version requires an update to the underlying cellular module. The latest version (6.3.11 or later) of XCTU will detect and update the module.

- * Feature Highlights

- * Upgrading the underlying module is now supported (required by 100A).
 - * Downgrade is also supported.
- * Multiple TLS/SSL sockets are now supported.
- * New MicroPython Features
 - * MicroPython XBee Sleep Control.
 - * Better integration between MicroPython and XBee Sleep modes.
 - * API for entering low power modes.
 - * MicroPython Secondary UART.
 - * Configure DIO Lines to use as a second UART usable by

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MicroPython.

- * I2C Master Support.
 - * Pin 7 and 19 on the XBee can be used as an I2C Master bus by MicroPython.
- * Incoming TCP/UDP connections.
 - * Incoming connections can be used with API, Transparent and MicroPython.
- * PWM0/RSSI support.
- * SPI.
 - * The XBee can be configured as an SPI Slave device.

Bug Fixes (XBCELL):

- * 496 ATVL format changed to be consistent with other XBees.
- * 854 Fixed buffering issue where data from the cellular modules would show up in command mode when in bypass mode (AP5).
- * 924 Three failed socket attempts will no longer cause the module to leave then rejoin the network.
- * 1838 Issue where UDP datagram was not truncated when the number of requested bytes is less than the actual datagram.
- * 2579 Some commands were subject to buffer overflow in command mode.
- * 2851 Issue where multiple sockets in MicroPython could cause a watchdog reset.

Known Issues / Errata:

- * Module with SPI mode enabled and pending Status frames to send to the SPI Master will not go to sleep.

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Release Version:

- * 1008 - XBee Cellular LTE Cat 1 Verizon

Release Date:

- * 2017-June-8

New Features:

- * Significant UART performance improvements for data transfer rates.
- * Incoming connections now are supported in API mode.
- * Close flag is now supported for UDP API mode sockets making API mode sockets easier to manage and more available.
- * MicroPython ifconfig() interface has changed and programs should now use add the config() method for getting and setting network parameters.
- * The AN command to set the APN was changed to take affect after AC or CN is executed; a new command OA was added to return the actual value of the APN in the modem.

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Bug Fixes (XBCELL):

- * 742 Fixed issue where sending a TCP/UDP frame in API mode over 1500 bytes did not generate a status frame.
- * 1306 ATLA command now returns immediately if the XBee is not on the network.
- * 1844 Fixed issue where CI did not correctly report 0x24 when a server did not exist.
- * 1908 Fixed issue where the TD parameter did not completely ignore R0 in transparent mode.
- * 2015 Fixed issue where MicroPython was fixed to SSLv3.

Known Issues / Errata:

- * None

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Release Version:

- * 1007 - XBee Cellular LTE Cat 1 Verizon

Release Date:

- * 2017-May-15

New Features:

- * MicroPython!
 - * On-module programmability to add local intelligence.
 - * Many examples in the Digi MicroPython Programmer Guide.
 - * AT commands for managing run-time behavior.
- * Digital I/O support.
- * Analog Input support.
- * Incoming connections in transparent mode.

Bug Fixes (XBCELL):

- * 1278 Fixed issue where DNS lookup command for very long domain names was not returning results.
- * 1544 Fixed issue where IPv4 transmit options were not handled correctly between frames.
- * 1842 Fixed issue where large data transmissions lose data in transparent mode when operating at 115200 or higher.

Known Issues / Errata:

- * MicroPython ifconfig() interface will change in the next release, and we will add a config() method for getting and setting network parameters.

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Release Version:

- * 1006 - XBee Cellular (LTE Verizon)

Release Date:

- * 2017-Feb-3

New Features:

- * Deep sleep mode.
- * Pin sleep support.
- * Cyclic sleep support.
- * Airplane mode sleep support.
- * DNS lookup command (ATLA).
- * Domain names now supported in DL command.
- * Destination phone number moved to P# command.
- * Operating Destination Address (ATOD) support.
- * SMS UTF-16/UCS-2 encoding support.
- * Association blink pattern now matches XBee Wi-Fi.
- * Antenna diversity setting.

Bug Fixes (XBCELL):

- * 498 ATCI behavior made consistent when invalid parameters are set.
- * 699 Tower connection reliability improved.
- * 770 ATAN blocked when second power supply not connected.
- * 860 Fixed issue where reboot during OTA update locks modem.
- * 861 Fixed issue where firmware locks up on restart when switching into bypass mode.
- * 868 Fixed issue where Device Cloud socket locks up on disconnect.
- * 910 Improved reliability of boot time.
- * 923 SSL 3.0 and TLS 1.2 now work.
- * 1002 ATCI now returns 0x27 after socket timeout.
- * 1048 Fixed issue where cellular component can get stuck when connecting to network.
- * 1105 Fixed issue where SMS messages between network providers are lost (related UCS-2 enhancements).
- * 1268, 1348 SMS failed for phone numbers starting with "+".
- * 1308 Added options for hardware flow control (D6 and D7) to X-CTU configuration file.

Known Issues / Errata:

- * SMS messages sent within 1 minute after network association (AI=0) is

established will fail.

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Release Version:

* 1005 - XBee Cellular (LTE Verizon)

Release Date:

* 2016-Nov-28

New Features:

* Initial release

* New features:

- * API & Transparent mode
- * AT command mode
- * By-pass to raw cellular modem
- * SMS
- * TCP/UDP (up to six sockets)
- * TLS/TCP (up to 1 socket)

Bug Fixes:

* None

Known Issues / Errata:

- * DNS currently requires a raw DNS socket request. Please see Digi support website for XCTU for updates.
- * Low power modes not yet supported (coming soon).