

XBee3 - Zigbee  
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Customer Release Notes  
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### Overview:

These release notes document changes made to the Zigbee firmware on the XBee3.

### Compatible Hardware:

- \* XBee3
  - \* XB3-24

### Links:

[Product Information](<https://www.digi.com/products/xbee-rf-solutions/2-4-ghz-modules/xbee3-zigbee-3/>)  
[Documentation](<https://www.digi.com/products/xbee-rf-solutions/2-4-ghz-modules/xbee3-zigbee-3#productsupport-support/>)  
[Support](<https://www.digi.com/support/productdetail?pid=5637/>)

### Release Files:

- \* Firmware
  - \* GBL: Firmware image for gateways and OEM updates
  - \* OTA: Firmware image for OTA firmware updates
  - \* EHX: Encrypted firmware for Legacy X-CTU
  - \* EHX2: Encrypted firmware for XCTU-NG
- \* Configuration
  - \* MXI: Legacy X-CTU configuration file
  - \* XML: XCTU-NG configuration file
  - \* TXT: Release Notes

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### Release Version:

- \* 1003 - Digi XBee3 Zigbee 3.0

### Release Date:

\* 2018-Mar-16

### Zigbee Stack:

\* EmberZNet 5.10.0.0 Zigbee 3.0 stack

### New Features:

\* Support for the Through-hole variant of the XBee3.

\* Initial MicroPython support.

### Bug Fixes:

\* The PR and PD masks have been updated to enable a pull-up on all input and disabled pins.

\* Resolved an issue where a malformed create source route packet could cause the device to watchdog.

\* Resolved an issue that prevented parameters from being written to flash if device had previously been running 802.15.4 firmware.

### Known Issues / Errata:

\* Same as previous release

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### Release Version:

\* 1001 - Digi XBee3 Zigbee 3.0

### Release Date:

\* 2017-Nov-17

### Zigbee Stack:

\* EmberZNet 5.10.0.0 Zigbee 3.0 stack

### New Features:

\* Initial Release

### Bug Fixes:

\* N/A

### Known Issues / Errata:

XB3\_ZB3\_0\_FW\_RN\_1003

- \* SPI is not supported in this release, UART is the exclusive serial interface.
- \* Nodes with encryption disabled can join an encrypted network but will not be allowed to communicate with secured nodes.
- \* Some data loss may be encountered if streaming large amounts of data while toggling RTS very rapidly and CTS is not enabled.
- \* Sending to endpoints other than the Digi Endpoint will not produce a transmit status frame.
- \* Reset + serial break when UART is disabled does not enter command mode.
- \* DI09 does not operate as a digital input/output pin.
- \* A UART baud rate of 921600 (BD=A) may be partially unstable.
- \* P3 (DOUT/DI013) and P4 (DIN/DI014) should not be used as anything other than UART.
  - \* These pins cannot be disabled to allow them to be used as Digital IO lines.
  - \* The above also means that they will not generate sample data when configured for digital input in a 0x92 sample frame.
  - \* (P3/DOUT/DI013) will show up in an IO sample frame whether set to be an IO input/output sample or not.
- \* After enabling and then disabling DI05 and DI09, the lines will still show up in 0x92 sample.
- \* A remote WR command might not return a response frame.
- \* Remote AT command sent with frame id=ff can result in duplicate response frames.
- \* Receiving Explicit RX Indicator packets will always report the default values for CI, SE and DE (even if they were changed before sending).
- \* The NT timeout is slightly longer than expected, this will affect the ND and DN timeout times by no more than 10%.
- \* ED command is not able to scan for the time determined by the parameter value. It will always scan for the default amount of time on each channel.

XB3\_ZB3\_0\_FW\_RN\_1003

\* Data loss may be encountered when transmitting a large amount of data. This will manifest as a 0x24 (address not found) transmit status. Applications should build in retry mechanisms in case of failed transmissions.

\* In the unlikely event that RTS is enabled and un-asserted at RESET time, the module will not attempt to form/join a network.

\* When an end device leaves the network because of a child poll timeout, it will not send a modem status leave notification. The AI parameter should be used.

\* A parent node will not immediately update the number of children available after a child has been purged due to no contact.