



<b>Product Notice</b>		Date: March 5, 2020
<b>Product</b>	Digi XBee 3 Cellular Smart Modem, LTE-M/NB-IoT (XB3-C-A2-UT-001)	
<b>Notice Number</b>	200305-01	

<b>Reason for Notification</b>	Communication of proper cellular component shutdown procedure to allow the module to deregister from the cellular network, safely store operating parameters, and ensure fastest network reconnection.
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<b>Audience</b>	All Digi XBee 3 Cellular LTE-M/NB-IoT Customers
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<b>Product Notice</b>	<p>Digi International would like to communicate the proper shutdown procedure for the XBee cellular devices. This was previously documented in the Digi XBee 3 Cellular Smart Modem <a href="#">user manual</a>, and has recently been highlighted in a <a href="#">Digi Knowledge Base article</a>. There have been no product changes. Graceful shutdown is a best practice for most cellular modules. This notice is additional communication to assist customers.</p> <p>Digi Knowledge Base Article Content: It is not recommended to remove power from the XBee Cellular devices without performing a clean shutdown procedure first. Performing a shutdown allows the module to deregister from the cellular network and safely store operating parameters. Failure to shutdown properly has the potential to result in delays resuming network operation and in some rare instances may result in an unrecoverable module failure. Safe shutdown is recommended for all modes of XBee Cellular firmware. If you are using USB direct mode or bypass mode, it is recommended that you review the module manufacturer's documentation on proper shutdown procedures.</p> <p>Choose from the three approaches below to perform a shutdown:</p> <p><b>Shutdown Command</b> The recommended approach is to use the shutdown (ATSD) command and wait for the OK to appear. Once OK is reached, power may safely be removed. If after two minutes the radio is still not able to be fully shut down, the command will return ERROR. To verify the state after the OK (or ERROR)</p>
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has appeared, you may issue an ATAI, which will return 2D on successful shutdown.

### Sleep Feature

Use one of the available sleep configurations such as the Pin Sleep feature (SM=1) or sleeping through MicroPython (xbee.sleep\_now()). When the module has gone to sleep and the SLEEP pin (pin 13) is low, power may safely be removed.

1. Initiate sleep (Assert SLEEP\_RQ).
2. Wait for sleep state to be entered (SLEEP pin low).
3. Power off.

### Airplane mode

Changing the XBee configuration to use Airplane Mode (AM=1) will also put the XBee into a safe state for shutdown.

1. Set AM=1.
2. Apply configuration changes.
3. Wait 30 seconds to allow time for shutdown to occur.
4. Power off.

<b>Affected Products</b>	XB3-C-A2-UT-001
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