



Application Guide

Upgrade the XBee module firmware on an XBee
Gateway

Digi Technical Support

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1 INTRODUCTION

1.1 Outline

This guide will describe how to download and update the firmware of the XBee module inside a Digi XBee Gateway (former ConnectPort X2e)

1.2 Assumptions

This guide has been written for use by technically competent personnel with a good understanding of the communications technologies used in the product and of the requirements for their specific application. It also assumes a basic ability to access and navigate a Digi XBee Gateway and configure it.

1.3 Corrections

Requests for corrections or amendments to this application note are welcome and should be addressed to: tech.support@digi.com

Requests for new application notes can be sent to the same address.

1.4 Version

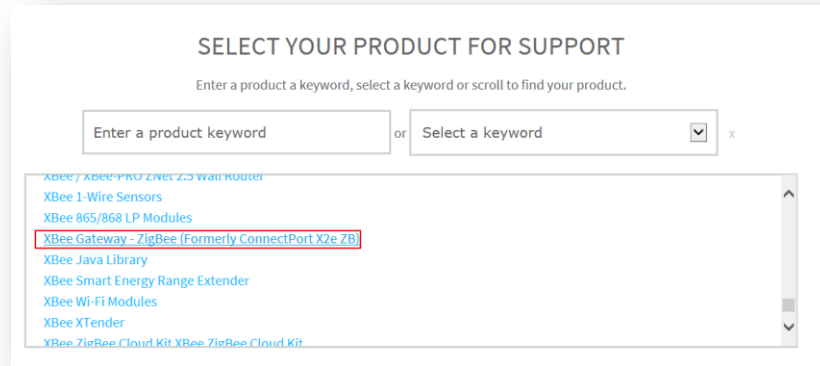
Version Number	Status
1.0	Published

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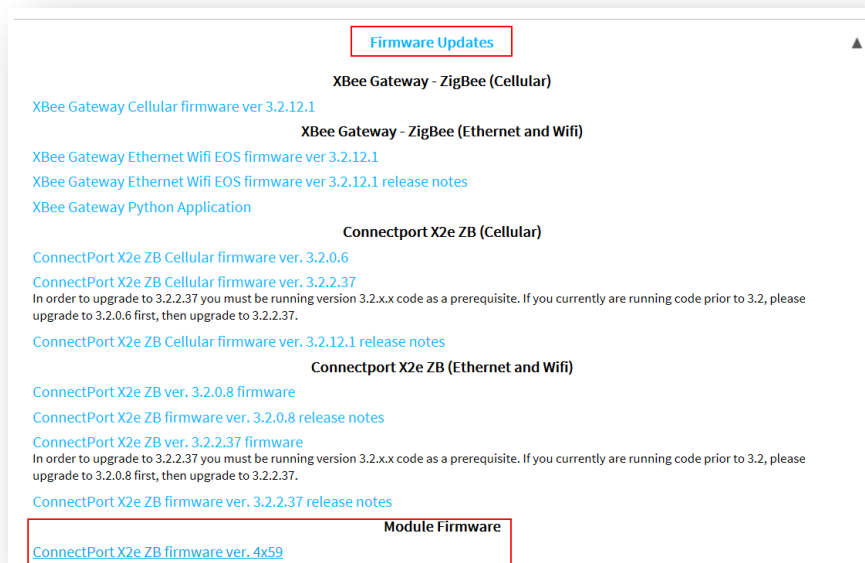
2 DOWNLOAD FIRMWARE

2.1 Download XBee firmware

Navigate to <http://www.digi.com/support/product-support> and select **XBee Gateway** from the product list.

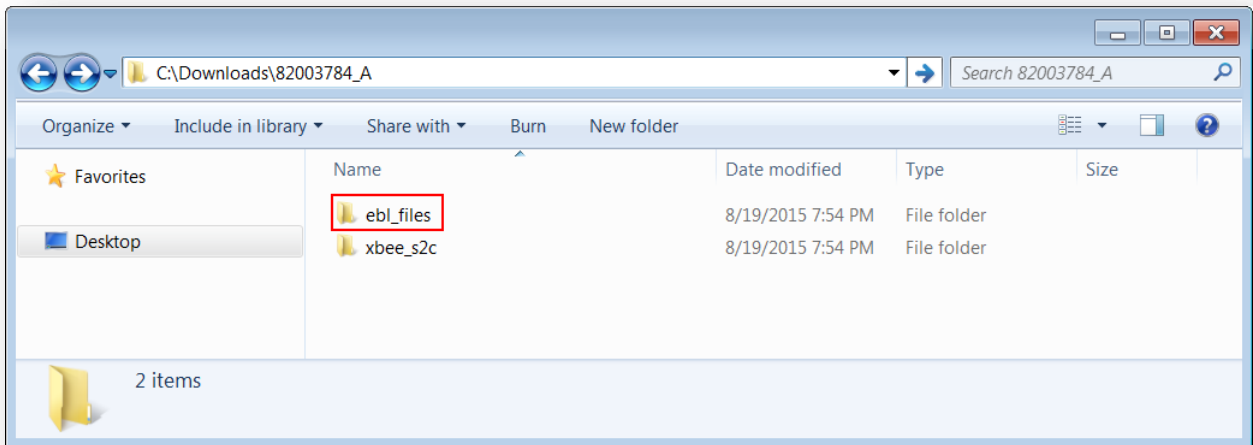


On the next page, select **Firmware Updates**, scroll to **Module Firmware** and select **ConnectPort X2e ZB firmware ver. XxXX** (where XxXX will be the latest version, in this example 4x59)



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Save the file on the computer and extract its content to a folder.



The files needed by the XBee Gateway to update the module are in the **ebl_files** folder.

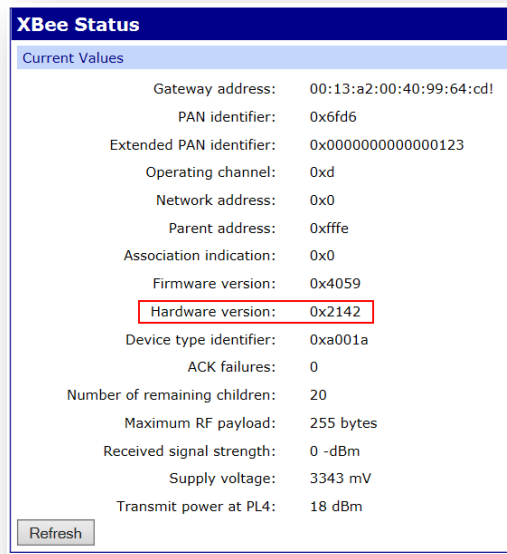
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3 VERIFY XBEE MODULE TYPE

Since the previously downloaded archive contains several different firmwares, it is important to check which module is inside the XBee gateway in order to select the right file.

Open the web interface of the XBee Gateway using a web browser. Navigate to the XBee Status page and check for the Hardware version.

Administration > Xbee Status



The following table will show the corresponding modules and their hardware version

Hardware Version	XBee module	File Name
0x21	ZigBee Pro	xbp24c-zb_4059.ebl
0x22	ZigBee	xb24c-zb_4059.ebl
0x2d	ZigBee Through-Hole Pro	xbp24c-zb-th_4059.ebl
0x2e	ZigBee Through-Hole	xb24c-zb-th_4059.ebl

*In this example, the hardware version reported is **0x21**. The file needed would be **xbp24c-zb_4059.ebl***

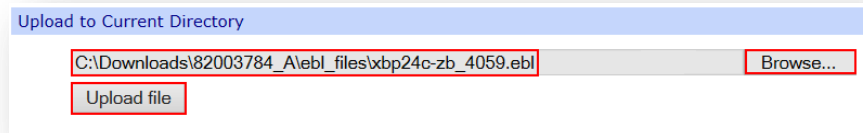
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4 UPDATE XBEE MODULE FIRMWARE

Open the web interface of the XBee Gateway using a web browser. Navigate to the XBee Firmware Update page.

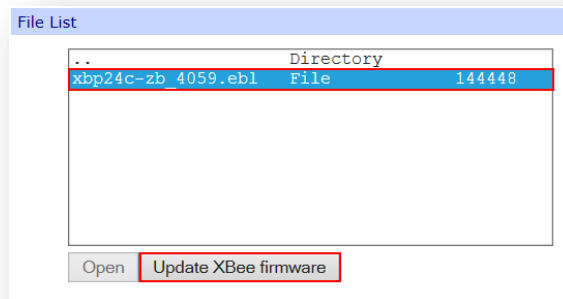
Administration > XBee Firmware Update

Under **Upload to Current Directory**, click on the **Browse** button and select the previously identified ebl file corresponding to the module then click **Upload file**.



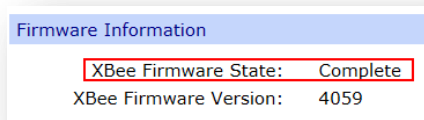
The file should now appear under the **File List**

Highlight it and click **Update XBee firmware**.



Warning: Do not power off or reboot the unit while the firmware update is in progress.

Under **Firmware Information**, it should say **“Updating”**. Wait until the status changes to **“Complete”**



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The firmware update process is now complete. Firmware version can also be verified under **Administration > XBee Status**

XBee Status

Current Values

Gateway address:	00:13:a2:00:40:99:64:cd!
PAN identifier:	0x6fd6
Extended PAN identifier:	0x00000000000000123
Operating channel:	0xd
Network address:	0x0
Parent address:	0xfffe
Association indication:	0x0
Firmware version:	0x4059
Hardware version:	0x2142
Device type identifier:	0xa001a
ACK failures:	0
Number of remaining children:	20
Maximum RF payload:	255 bytes
Received signal strength:	0 -dBm
Supply voltage:	3341 mV
Transmit power at PL4:	18 dBm

Refresh