

APPLICATION NOTE



TX321/TX320 Firmware **Update Procedure**

Revision: 2/18

Table of Contents

PDF viewers: These page numbers refer to the printed version of this document. Use the PDF reader bookmarks tab for links to specific sections.

- 1. Equipment Needed.....1**
- 2. Check Current Firmware Version.....1**
- 3. Update Firmware3**

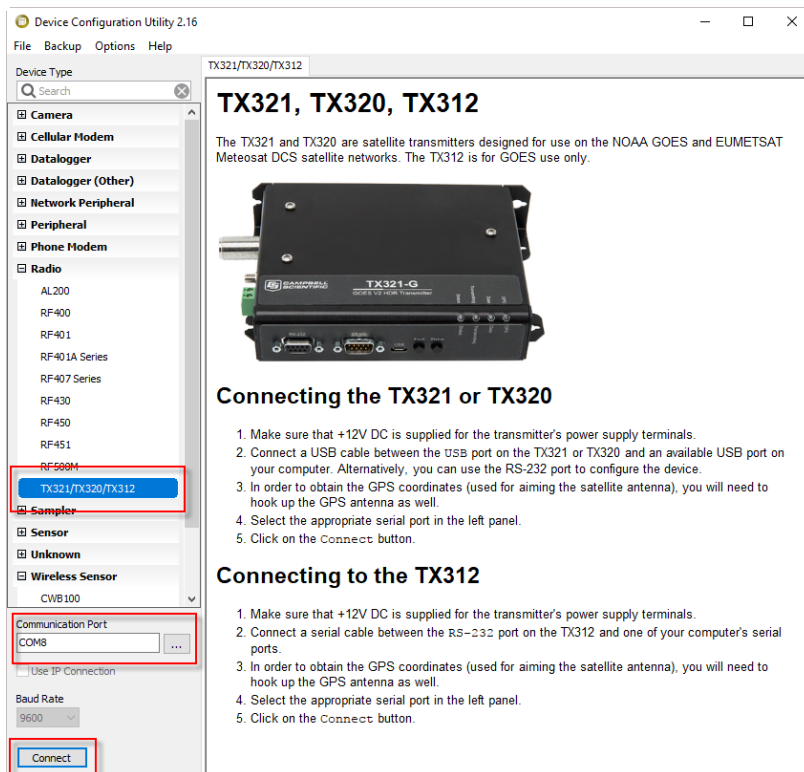
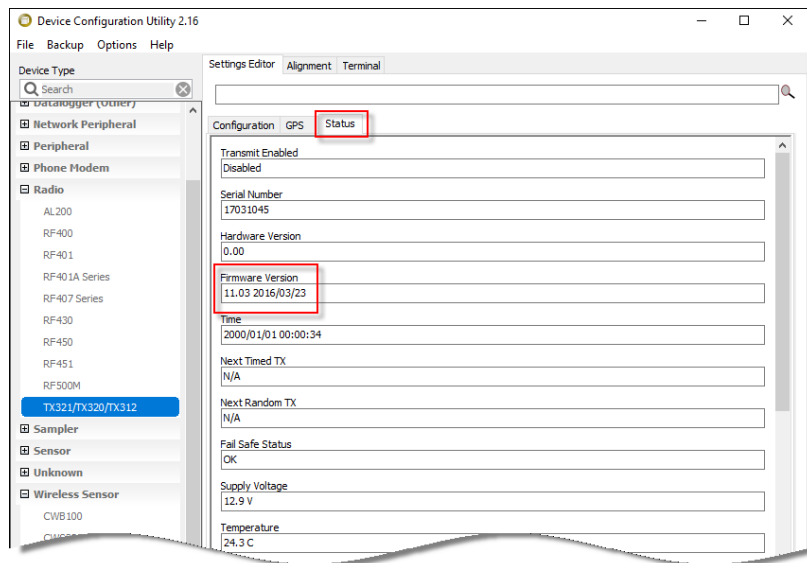
TX321/TX320 Firmware Update Procedure

1. Equipment Needed

- Computer with *Device Configuration Utility* installed. The latest version of *Device Configuration Utility* can be downloaded from our website at www.campbellsci.com/downloads/device-configuration-utility.
- RS-232 cable or USB to RS-232 cable
- 12V power supply
- DeviceFirmwareUpdaterPC.exe and the G61_APP_Vxx.xx.hex (TX321) or G5_APP_V8.04 (TX320) firmware file. These can be downloaded from our website at www.campbellsci.com/downloads/tx321-gps-update.

2. Check Current Firmware Version

1. Apply power to the TX321/TX320.
2. Connect the **RS-232** port of the TX321/TX320 to the computer. (Note that the **RS-232** port is the only port that will allow the firmware update.)
3. Open *Device Configuration Utility*.
4. Under **Device Type**, select **TX321/TX320/TX312**.
5. Select the correct **Communication Port**.

6. Click **Connect**.7. On the **Settings Editor | Status** tab, check the current **Firmware Version**.

8. For the TX321, the firmware will report a version 10 or version 11.

If a version 10 firmware is less than 10.18, update to the latest version 10 firmware (version 10.18).

WARNING

If you attempt to update from a version 10 firmware to a version 11 firmware, it will clear your calibration parameters. This will require that the unit be sent back to Campbell Scientific for recalibration.

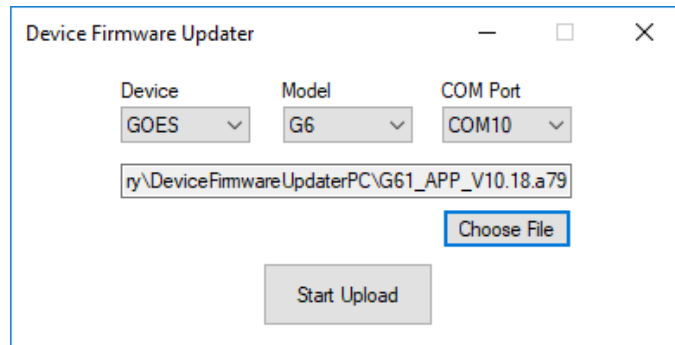
If a version 11 firmware is less than 11.05, update to the latest version 11 firmware (version 11.05).

For the TX320, version 8 firmware needs to be updated to the latest version 8 firmware (version 8.04). Firmware prior to version 8 does not need to be updated.

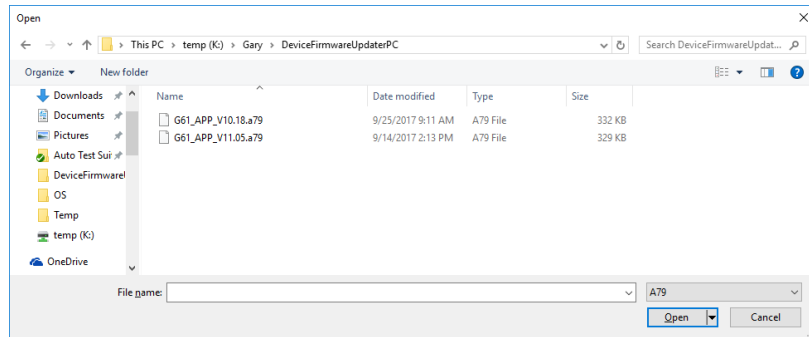
9. Disconnect from the *Device Configuration Utility*.

3. Update Firmware

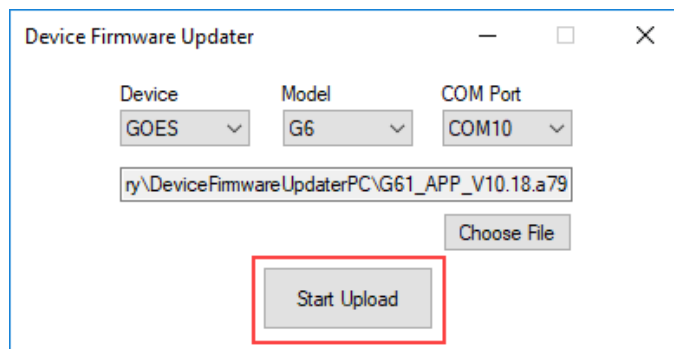
1. Connect the **RS-232** port of the TX321/TX320 to a computer.
2. **Remove power** from the TX321/TX320.
3. Locate the DeviceFirmwareUpdaterPC.exe file.
4. Click on the file to run the software.
5. Ensure that the **Device** is set to **GOES**. Select the appropriate **Model** (G6/TX321, G5/TX-320). Select the appropriate **COM Port**. Verify that the RS-232 cable is attached.



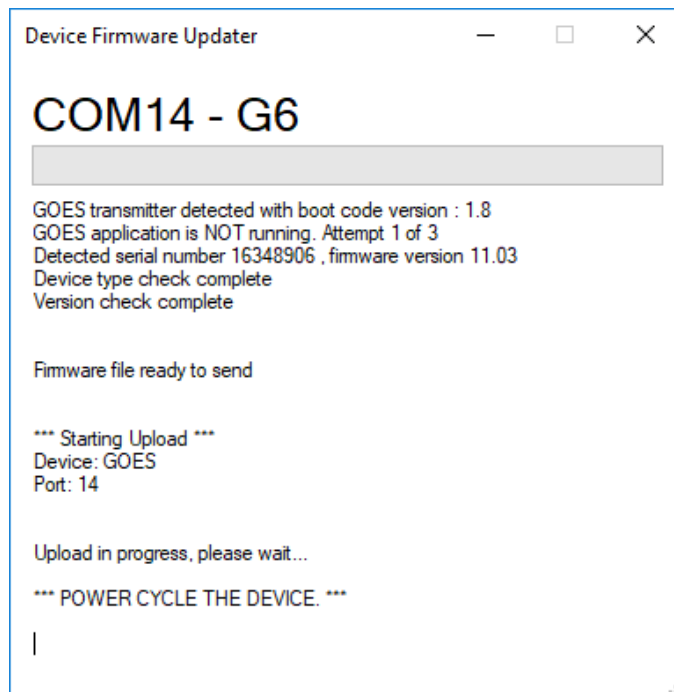
- Click the **Choose File** button, browse to the appropriate firmware version, and click **Open**.



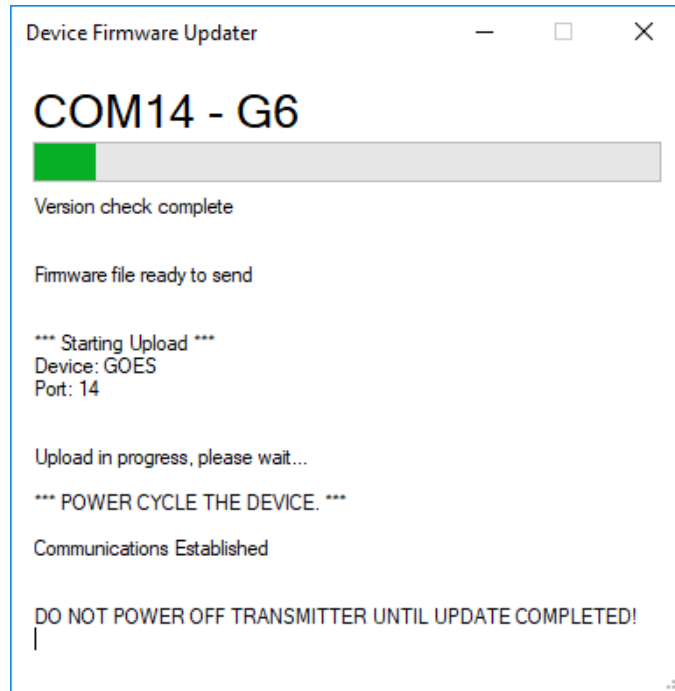
- Click the **Start Upload** button to proceed.



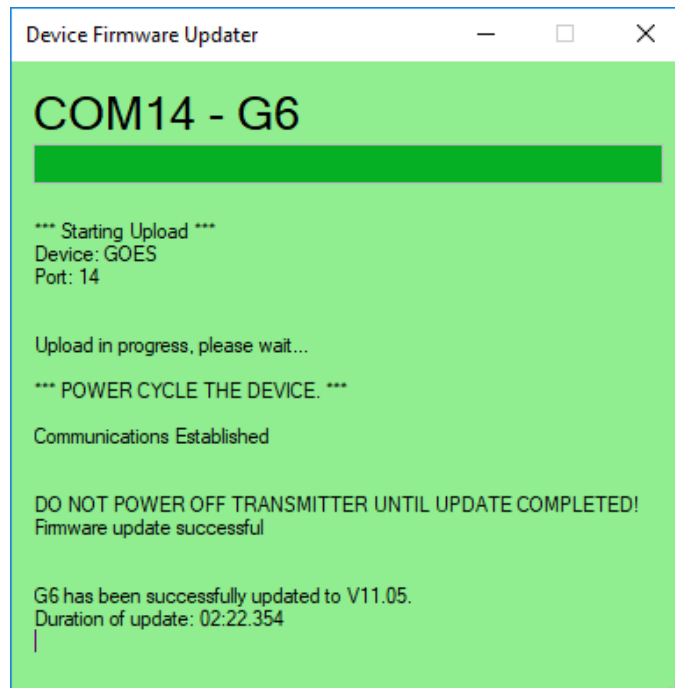
- Once the upload screen appears, follow the instructions displayed in the dialog.



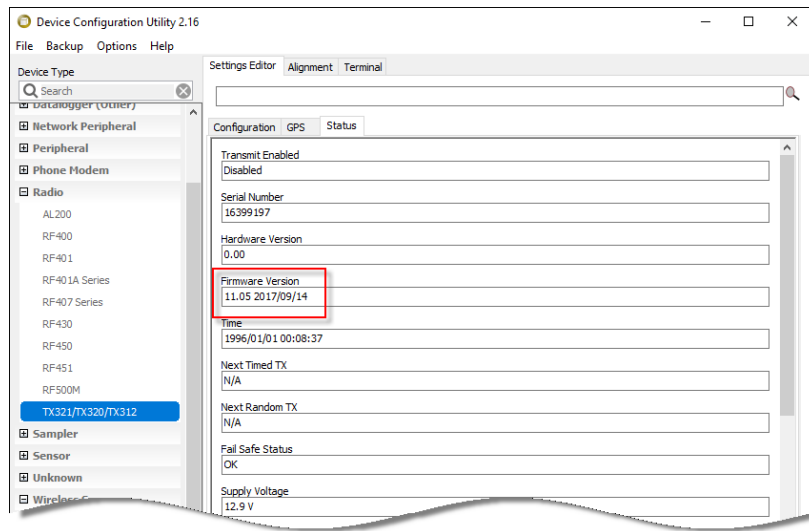
If no error messages are shown (dialog turns red), the green progress bar will begin to move.



When complete, the dialog will turn green.



11. Use the *Device Configuration Utility* to verify the firmware has been updated.



Campbell Scientific Companies

Campbell Scientific, Inc.

815 West 1800 North
Logan, Utah 84321
UNITED STATES

www.campbellsci.com • info@campbellsci.com

Campbell Scientific Canada Corp.

14532 – 131 Avenue NW
Edmonton AB T5L 4X4
CANADA

www.campbellsci.ca • dataloggers@campbellsci.ca

Campbell Scientific Africa Pty. Ltd.

PO Box 2450
Somerset West 7129
SOUTH AFRICA

www.campbellsci.co.za • cleroux@csafrica.co.za

Campbell Scientific Centro Caribe S.A.

300 N Cementerio, Edificio Breller
Santo Domingo, Heredia 40305
COSTA RICA

www.campbellsci.cc • info@campbellsci.cc

Campbell Scientific Southeast Asia Co., Ltd.

877/22 Nirvana@Work, Rama 9 Road
Suan Luang Subdistrict, Suan Luang District
Bangkok 10250
THAILAND

www.campbellsci.asia • info@campbellsci.asia

Campbell Scientific Ltd.

Campbell Park
80 Hathern Road
Shepshed, Loughborough LE12 9GX
UNITED KINGDOM

www.campbellsci.co.uk • sales@campbellsci.co.uk

Campbell Scientific Australia Pty. Ltd.

PO Box 8108
Garbutt Post Shop QLD 4814
AUSTRALIA

www.campbellsci.com.au • info@campbellsci.com.au

Campbell Scientific Ltd.

3 Avenue de la Division Leclerc
92160 ANTONY
FRANCE

www.campbellsci.fr • info@campbellsci.fr

Campbell Scientific (Beijing) Co., Ltd.

8B16, Floor 8 Tower B, Hanwei Plaza
7 Guanghua Road
Chaoyang, Beijing 100004
P.R. CHINA

www.campbellsci.com • info@campbellsci.com.cn

Campbell Scientific Ltd.

Fahrenheitstraße 13
28359 Bremen
GERMANY

www.campbellsci.de • info@campbellsci.de

Campbell Scientific do Brasil Ltda.

Rua Apinagés, n.br. 2018 — Perdizes
CEP: 01258-00 — São Paulo — SP
BRASIL

www.campbellsci.com.br • vendas@campbellsci.com.br

Campbell Scientific Spain, S. L.

Avda. Pompeu Fabra 7-9, local 1
08024 Barcelona
SPAIN

www.campbellsci.es • info@campbellsci.es

Please visit www.campbellsci.com to obtain contact information for your local US or international representative.