

CT3680 Firmware Updating

It is not common, but on occasion it may be useful to update the CT3680 firmware to obtain newly developed programs or enhancements to existing programs. Updating the module firmware requires an FXCore In Circuit Programmer (ICP) board, available [on our website](#). This board provides a bridge between a computer USB port and the CT3680 module. Currently this update process is supported only on Windows 10 or later.

In addition to the ICP, you will need to download the CT3680 updater application from:

<https://cabintechglobal.com/apps>

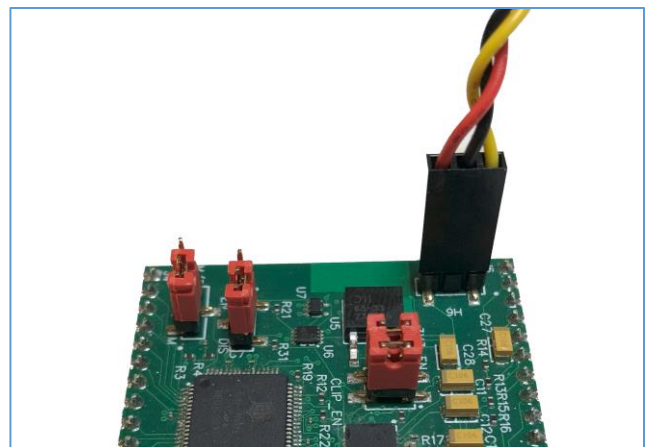
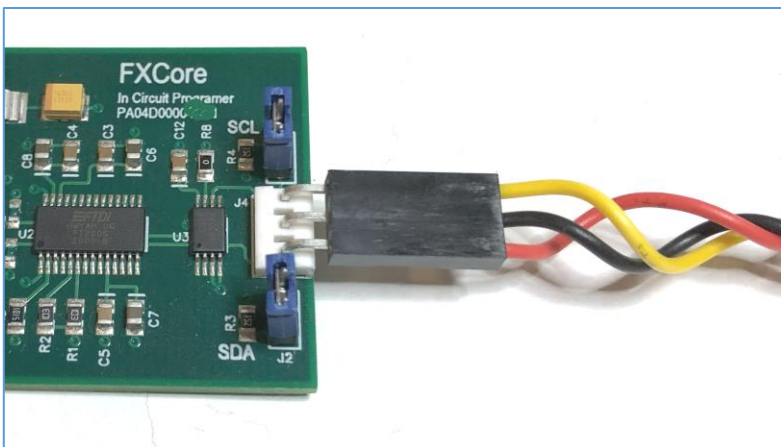
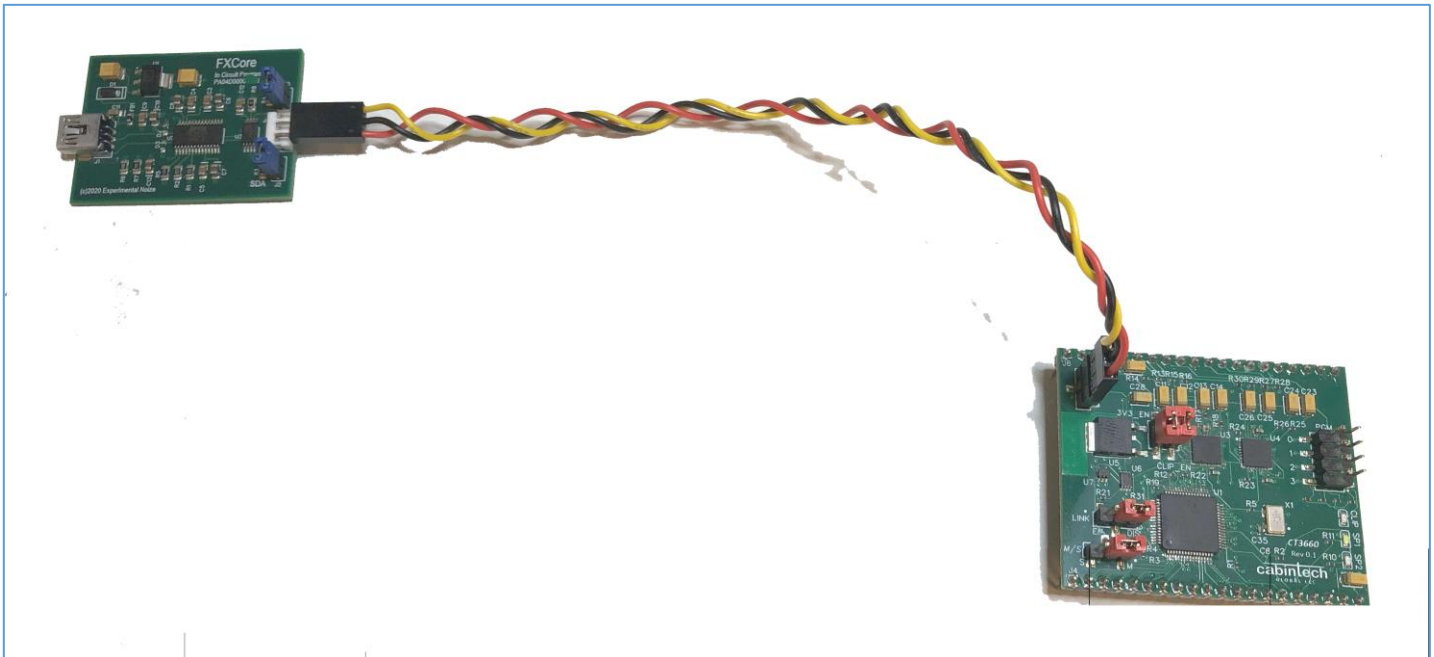
Use the link on that page to download the 'ct3680-updater' application. This is a windows EXE that will manage the update process. If you have a CT3680 prototype (beta) module, you will also need the 'ct3680-gets'n' application.

Connecting the PC, ICP, and CT3680

Connect the ICP board to the CT3680 using a commonly available 3-pin female-to-female cable connector (2.54mm pitch) such as [these cables on Amazon](#). Orient the cable as shown (note the position of the red wire at each end) plugging one end of the cable into the 3-pin header on the ICP, and the other end to the H6 3-pin header on the CT3680. These kind of cables are not keyed, so be sure to correctly orient them as shown. (The wire colors do not matter, it is just important that the correct pins are connected on each side, e.g the “SDA” pin of the ICP connects to the module H6 pin closest to the voltage regulator).

The ICP will draw it’s power from the computer USB port, but the CT3680 must be powered separately through it’s normal power supply pins.

[Note these photos show the prototype module, these will be updated when the production module becomes available]



Using a standard mini USB cable, plug the ICP into a Windows PC.

Running the Updater

The updater “ct3680-updater.exe” is a Windows console application. Download it to any directory, then open a command window in that directory and execute it. No administrator privileges are required. The updater will connect to the Cabintech update service to retrieve the updates and install them into the CT3680.

Before running the updater, verify:

1. The Windows PC is connected to the internet.
2. The CT3680 is powered through its normal power supply pins (the ICP will not supply power to the CT3680).
3. The ICP is connected by a USB cable to the Windows PC.
4. The ICP is connected to the CT3680 by a 3-pin cable.

There are no parameters or information you need to supply to the updater, just run the executable from a command window:

```
C:\temp> ct3680-updater

Cabintech Global CT3680 firmware updater started, updater version 0.1

Getting update package
Updating firmware to version 'beta3'
.....
CT3680 firmware update completed with no errors.
```

If the updater detects any problems it will display an appropriate message. If you get a message that your CT3680 serial number is not recognized, please contact us for help. You will get that message if you have a prototype version of the module. Run the “ct3680-getsfn” program and send us the output to get your module registered with the update service.