

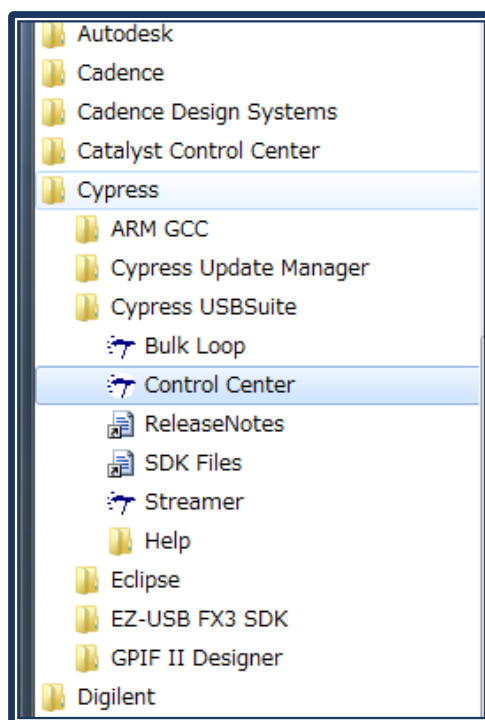
## Programming Instructions for USB FX3 on COSMO Board

### USB FX3 Programming

Connect USB cable from PC to Cosmo Board USB3 connector (X9). A USB3 Type A-Male to USB Type Micro B-Male cable is required. For location of the USB3 connector (X9) on the Cosmo Board see Figure 3-1 in the Cosmo Operating Manual.

Open “Cypress Control Center” from Windows menu. The “Cypress Control Center” is one of the tools integrated with Cypress FX3 Development Kit,

- Windows > Cypress > Cypress USBSuite > Control Center



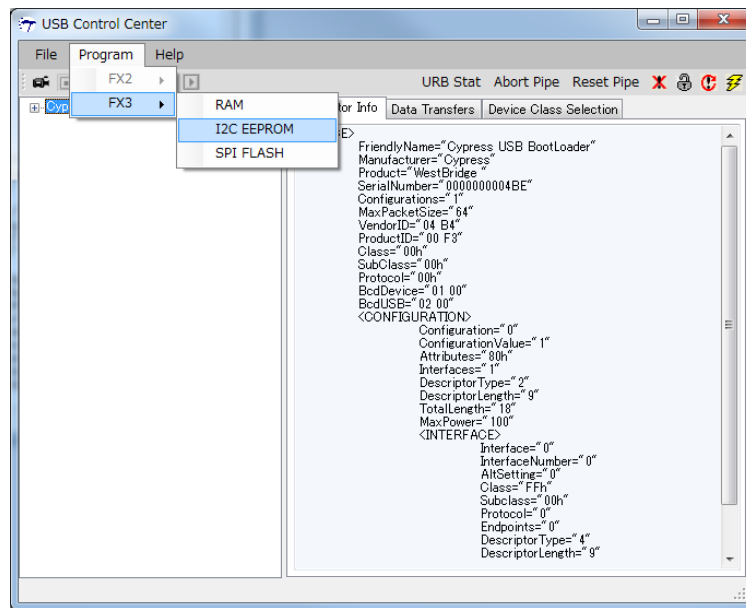
Move jumper pin on J2 from position 2-3 to position 1-2 for USB3 programming only.

Restart Cosmo board. The Cosmo can be restarted in the following ways: (1) sending “RESET” command via COM port, (2) by pushing the hardware reset button or (3) by power cycling the 24 volt power supply.

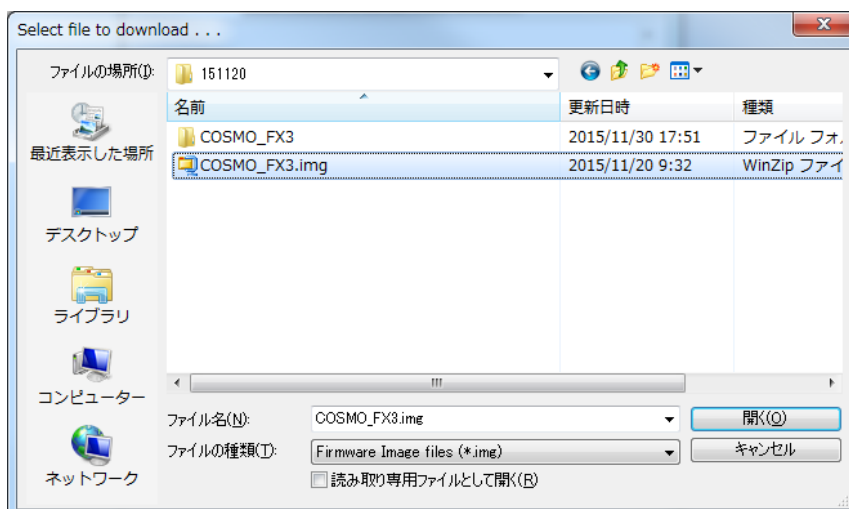
Verify that “Cypress FX3 USB BootLoader Device” driver is listed in Windows Device Manager under “USB Controllers”. May need to update driver if “Cypress FX3 USB BootLoader Device” does not show up in Control Center. Note: When the J2 jumper is in the normal operating position (jumper position 2-3), then the USB driver will be listed as “Cosmo – New Generation GLV/PLV Controller” in the Device Manager after a board reset is completed.

Highlight Cypress USB BootLoader and program FX3 boot memory from “Program” menu.

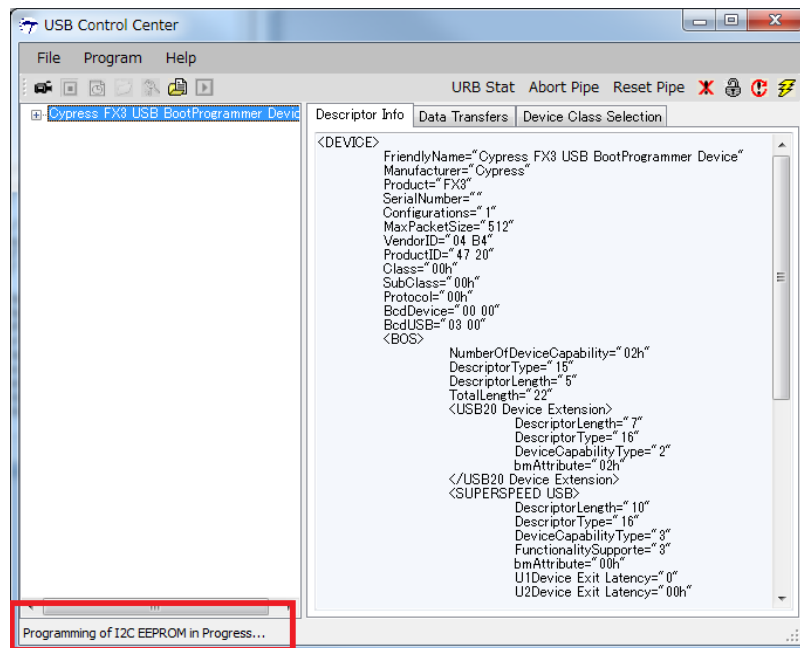
Program > FX3 > I2C EEPROM



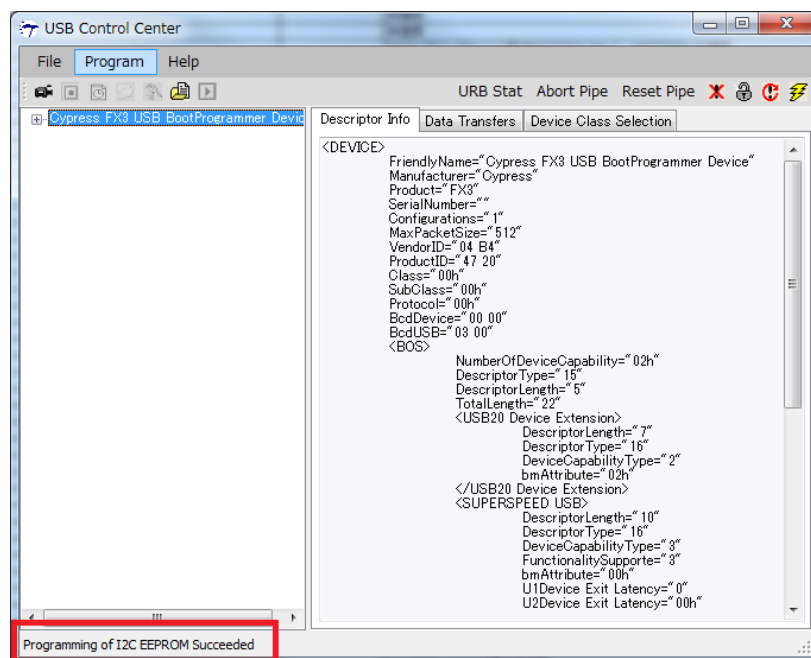
Select download file “COSMO\_FX3.img” or desired “\*.img” file.



After you press “open”, device will change to “Cypress FX3 USB BootProgrammer Device” and status message is shown in the bottom of window.



Wait for a while until programming is completed. When the programming is completed, message is shown in the bottom of window.



Move jumper on J2 from position 1-2 to position 2-3 for normal operations.