



FRANKLIN
WIRELESS

CDU-680DORA Mobile Broadband USB Modem+Disk™

Quick Installation Guide

Regulatory Notice

This device is compliant with Parts 15 and 24 of the FCC Rules. Operation of this device is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesirable operation.

FCC guidelines stipulate that the antenna should be more than 1.5 cm (0.6") from all persons.

FCC ID: **TARCDU-680**

CAUTION

Unauthorized modifications or changes not expressly approved by Franklin Wireless could void compliance with regulatory rules and thereby your authority to use this equipment.

WARNING (EMI) – United States FCC Information

This equipment has been tested and found to comply with the limits pursuant to Part 15 & 24 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in an appropriate installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important Notice

Because of the nature of wireless communications, transmission and reception of data can never be guaranteed. Data may be delayed, corrupted (i.e., have errors), or be totally lost. Although significant delays or losses of data are rare when wireless devices such as Franklin Wireless CDU-680 1xEV-DO rev. A USB modem are used in a normal manner with a well-

constructed network, they should not be used in situations where failure to transmit or receive data could result in damage of any kind to the user or any other party, including but not limited to personal injury, death, or loss of property. Franklin Wireless, Corp. accepts no responsibility for damages of any kind resulting from delays or errors in data transmitted or received using the Franklin Wireless CDU-680 1xEV-DO USB modem, or for failure of Franklin Wireless CDU-680 1xEV-DO USB modem to transmit or receive such data.

Safety and Hazards

Do not operate the Franklin Wireless CDU-680 1xEV-DO USB modem in areas where blasting is in progress, where explosive atmospheres may be present, near medical equipment, life support equipment, or any equipment which may be susceptible to any form of radio interference. In such areas, the Franklin Wireless CDU-680 1xEV-DO USB modem **MUST BE REMOVED FROM YOUR COMPUTER**. It can transmit signals that could interfere with this equipment.

Do not operate the Franklin Wireless CDU-680 1xEV-DO USB modem in any aircraft, whether the aircraft is on the ground or in flight. In aircraft, the Franklin Wireless CDU-680 1xEV-DO USB modem **MUST BE REMOVED FROM YOUR COMPUTER**. When operating, it can transmit signals that could interfere with various onboard systems.

The driver or operator of any vehicle should not operate the Franklin Wireless CDU-680 1xEV-DO USB modem while in control of a vehicle. Doing so will detract from the driver or operator's control and operation of that vehicle. In some jurisdictions, operating such communication devices while in control of a vehicle is an offense.

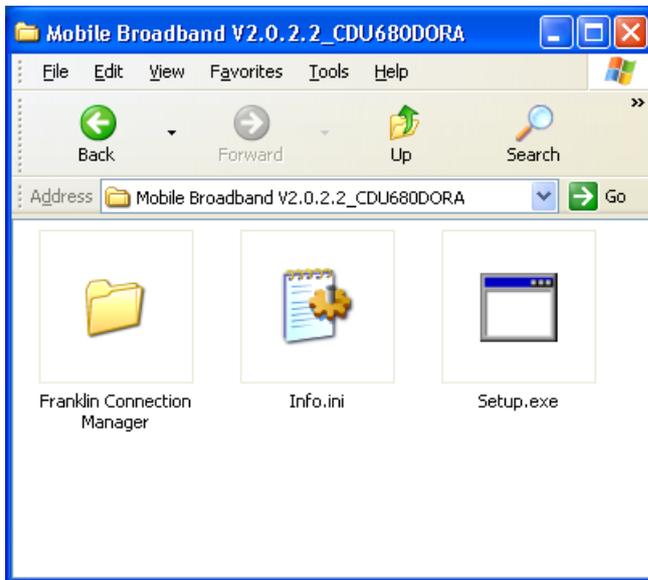
Setup for Windows® PC Users

For Windows® 2000, XP, and Vista users only. Mac users please skip to “Setup for Mac Users”

Before connecting your PC or laptop to your service provider for Mobile Broadband Data Service, you must first install the Connection Manager software on your PC or laptop.

Connection Manager Software Installation (for Windows® 2000, XP, Vista users only)

1. Insert the CDU-680 USB Modem+Disk™ into an USB slot on your PC. The device will be shown as a removable storage on your computer. Go under the “Windows_2K_XP_Vista” directory to access the installation files directory shown below. Double-click on “Setup.exe” file to start.



2. This will automatically launch the InstallShield® Wizard which will guide you through the rest of the setup process.
3. Click ‘Next’ to install the software into the default destination. To install to a different folder, click ‘Browse’ and select destination folder.
4. Make sure to select both Device Driver and Modem Manager UI, then click ‘Next’.
5. Click “Install” and wait for Installation to complete.
6. Wait for your PC to reboot. You may need to restart your PC manually by selecting Start>Shutdown>Restart.

Starting a Data Session

1. Double-click the **Mobile Broadband (CDU680)** Connection Manager Software icon  on your Windows® desktop to launch the application. The following user interface appears:



2. Insert the Franklin CDU-680 USB Card into one of the available USB slots on your computer. Once it is detected, the screen on the Connection Manager will start to change. The modem will go through a series of tasks to prepare the modem for a data session, these include:

- i. Initializing the modem



- ii. Checking the connection

- iii. Searching for service



3. Once the modem completes the above tasks, which may take a few minutes, the window in the user interface will show: **“Disconnected”** indicating the modem is ready to connect to the Data Service. If the signal is low or does not exist at all, move to a different location to achieve the best signal condition in your area.



If your CDU-680 USB modem has not been pre-activated for Data Service, a “activation wizard” will pop up and guided you through the activation process as shown in the following “Activating Data Service” session before continue to connect to the data service.

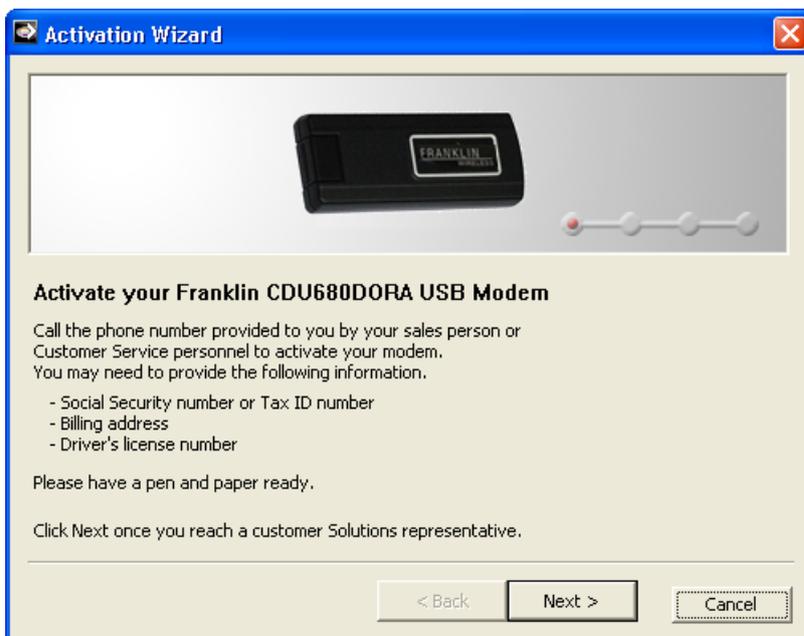
4. From here, click “Go” to start a data session. Click the minimize  button to minimize the user interface, the icon:  will appear in the System Tray on the right side of the Task Bar. To display the user interface again, click the icon:  in the System Tray.

Ending a Data Session

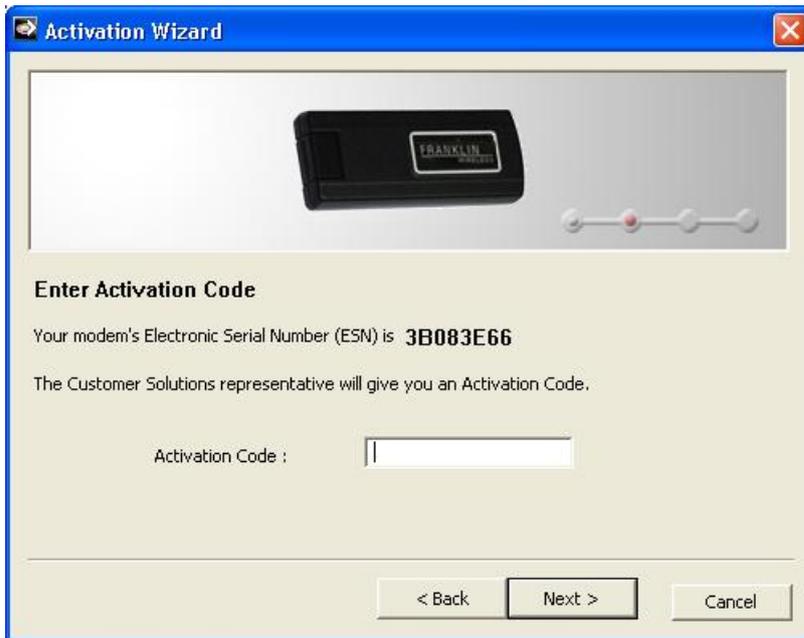
To end a data session, click the “Stop” button on the user interface. Close the Connection Manager window by clicking . It is now safe to remove the USB Card from your computer.

Activating Data Service

1. If your CDU-680 USB modem is not pre-activated, call the phone number provided to you by the sales person. Have the following information available:
 - Your billing address
 - Your personal ID, such as, driver’s license number, and Social Security number
 - ESN number (located on the back side of your modem)
 - Pen and paper ready
2. Click ‘Next’ on the Activation Wizard as shown below.



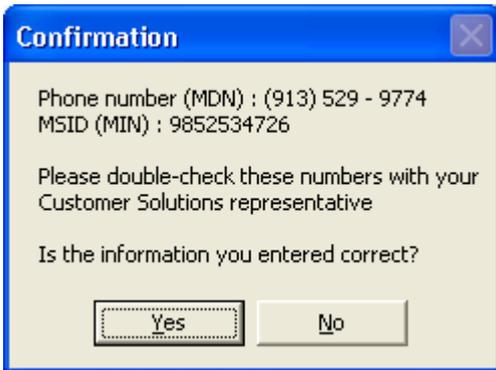
3. Enter Activation code (provided to you by your sales person or Customer Service Personnel) and click ‘Next’.



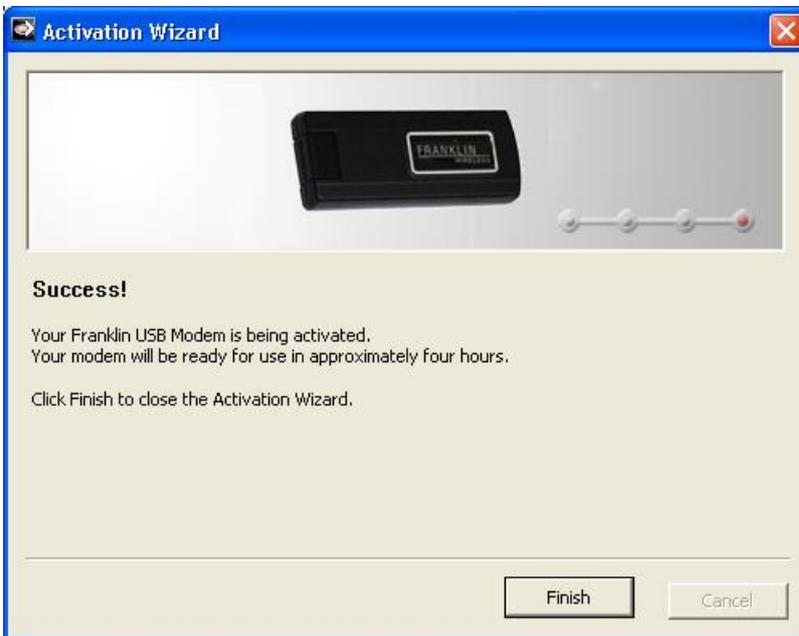
4. Enter the phone number and MSID (MIN) received from your wireless data service provider, and click the Next button.



5. Please double-check that the numbers you entered match those provided by the sales person or Customer Service personnel. Clicking on the 'No' button to return to the previous window. Clicking on the 'Yes' if everything is correct.



6. Click the 'Finish' button to close the Activation Wizard.



7. Once Activation Wizard is done, the Connection Manager will appear, indicating an IOTA session to activate your card on the Data Service network with information you just put in. This could take a couple of minutes. Please wait for this to finish.



8. Once the screen returns to the “Disconnected” state, your card is provisioned and ready to connect to the Data Service.



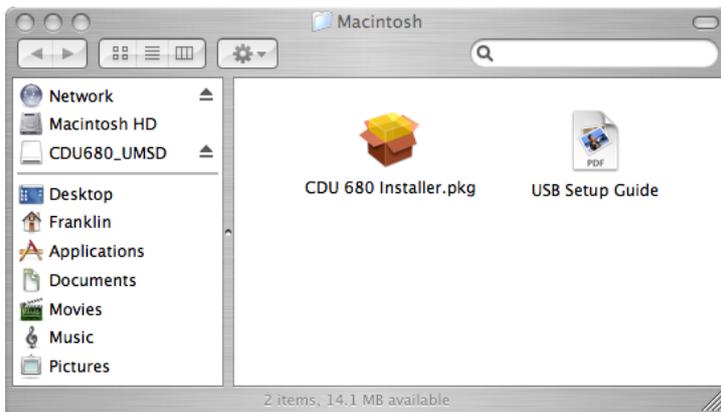
Setup for Mac Users

Connection Manager Software Installation for Mac Users

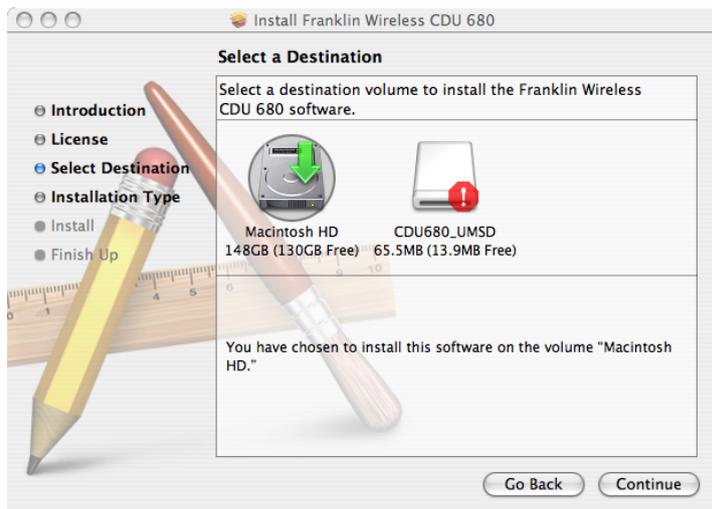
Insert your Mobile Broadband USB modem into any available USB port, and wait for the USB



device icon to appear on your desktop. Click on the icon to open the USB storage, and select the Macintosh directory.



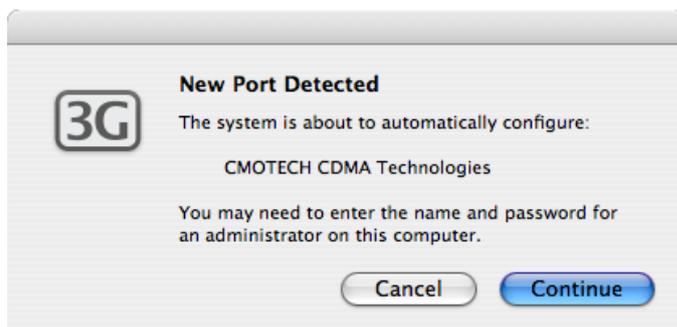
Click on the “CDU 680 Installer” package to install your Connection Manager, a series of installation windows will pop up and guide you through the process.



The software installation will start after you click **Continue** in the above window and **Install** in the next. When done, the Mac will prompt you to restart your computer to finish your installation.

Launching the Connection Manager

Insert your USB Modem into any available USB port. After the USB device is detected by the Mac, the modem icon  will be displayed on the taskbar at the upper right corner on your desktop, indicating that the Connection Manager is launched and ready to connect.



If this is the first time you have inserted the modem into that USB slot or you used other USB slots before this, your device will have to be confirmed and configured. You only need to click the **Continue** button to proceed on the above window pop-up, and enter your Mac password when asked.

Note: If your modem has been activated for service, please skip to “Starting a Data Session”.

Activating CDU-680 USB Modem

Click  icon to expand the menu and select **Activation** under **Settings** to start activation. Follow the instructions in the following window, and click **Next** to proceed.



Franklin Wireless – Activation Wizard



Activate your Franklin CDU680DORA USB Modem

Call the phone number provided to you by your sales person or Customer Service personnel to activate your modem. You may need to provide the following information.

- Social Security number or Tax ID number
- Billing address
- Driver's license number

Please have a pen and paper ready.

Click Next once you reach a customer Solutions representative.

You will be asked to enter the **Activation Code (MSL)**,



Franklin Wireless – Activation Wizard



Enter Activation Code

Your modem's Electronic Serial Number (ESN) is **3B083E66**

The Customer Solutions representative will give you an Activation Code.

Activation Code:

followed by your assigned Phone Number (MDN) and MSID (MIN). Once you confirm this information, you may click **Next** again to activate your modem.



When your modem is successfully provisioned by your service provider, a window will pop up to confirm that the activation is successful. Click **Finish**, and your USB modem is ready to connect to your service provider's network.

Starting a Data Session

Insert your device into any available USB port. Wait for the modem to search for data service in your area. When service is found, you will see the signal bars appear next to the modem icon  on the menu bar. If the signal is low or does not exist at all, try a different location, preferably near a window or in a open space, to find the best signal condition in your area.

With the dots above the telephone icon  faded out indicating that the modem is not connected yet, click on  to expand the menu and select **Connect** to start a Data Session. Mac will attempt to connect to the Mobile Broadband Data Service, and the dots above the telephone will be turned on and off showing the connecting progress. To have word "Connecting..." scrolling across on the menu bar  **Connect**, go under  and check "Show status when connecting". When service is established, the dots will turn solid , indicating a data session is in service. To have your connection time displayed  00:00:52 on the menu bar icon, go under  and check "Show time connected".

Ending a Data Session

To end the data session, click the Signal icon  then select **Disconnect**. The modem is now disconnected and ready to re-connect.

Setup for Linux Users

Scripts for Ubuntu Linux distribution are provided. You may need to develop your own scripts for other distributions.

1. Insert the CDU-680 USB Modem+Disk™ into an USB slot on your PC. The device will be shown as a removable storage on your computer.
2. The script files are located under the “Linux” directory. Copy the whole directory to your desktop.
3. Do the following steps:
 - a. Open terminal
 - b. Cd to Desktop/Linux
 - c. Run "sudo ./connect"
 - d. Enter root password
4. Device will switch to modem mode and attempt to connect.
5. To disconnect, press Ctrl-C twice.

Installation of the Patent Pending Y-cable*

Under most operating conditions, your CDU-680 USB modem will operate well when inserted into one single USB port and you do not need to install the Y-cable. But in some rare instances your USB modem may require more power to operate due to poor signal condition. When your PC or MAC displays a warning message indicating the “USB device had exceeded the power limit”, please follow the steps below to install the Y-cable to supply enough power to the USB modem.

1. Insert the two USB connectors into any two USB ports of your PC or MAC:



2. Plug the CDU-680 USB modem into the other end of the Y-cable:



*** Y-cable U.S. patent pending by Cmotech Co. Ltd. of South Korea**