



# CTM-200 Firmware Upgrade Steps

Model	CTM-200 Gateway
Revision	Rev 1.3

# Revision Control

Description	Revision	Date
Initial Release	1.0	12-Mar-2013
Updated for CTM-200 R2	1.1	04-Jun-2014
Updated	1.2	29-Jul-2014
Updated	1.3	20-Jul-2015

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# I. Overview

Upgrading the CTM firmware revision will provide you with access to the latest feature set and functionality that the modem has to offer.

This application note will provide a description on how to upgrade you firmware using one of the following methods:

- Command Line
- Embedded Web Browser

Visit the “Connect to Device” application note for instructions on how to access the command line and/or embedded web browser:

## 2. Command Line Upgrade

### 2.1 Upgrade from URL

**Note: This procedure uses the wireless data device of the CTM-200 unit and incurs wireless data charges on the device’s account**

1. Access the unit via SSH/Telnet/Serial
2. To perform an upgrade using a full firmware image, enter the command below, substitute **<version number>**:

```
cmd upgradefw http://cypress.bc.ca/repository/openctm/ctm200r2/bin/ctm200-<version number>-fs.tar
```

OR

To perform an incremental upgrade using an incremental firmware image, enter the command below, substitute **<version number>**:

```
cmd upgradefw http://cypress.bc.ca/repository/openctm/ctm200r2/bin/ctm200-<version number>-inc.tar
```

3. The firmware upgrade completes with the message “Firmware update completed successfully - rebooting now!”. After seeing this message, the unit will power cycle once before returning to normal operation.

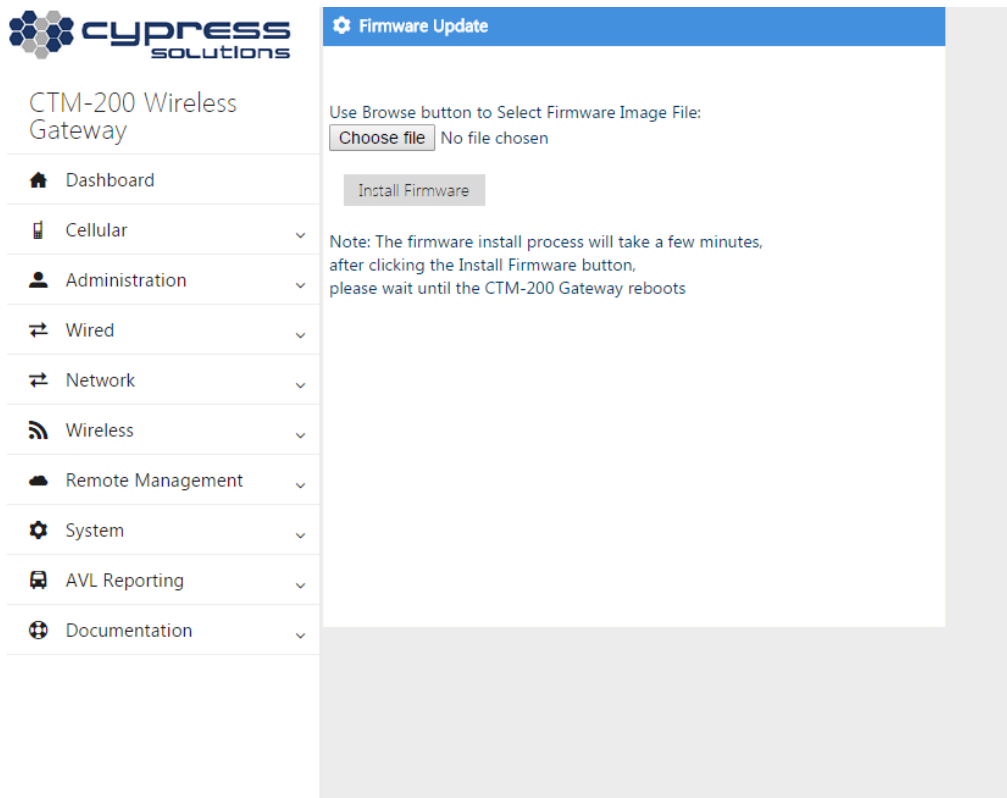
### 2.2 Upgrade from USB

\*Note: Certain USB sticks are not compatible with CTM modems.

1. Download latest firmware to a PC from: <http://cypress.bc.ca/repository/openctm/ctm200r2/bin>
2. From the PC, copy **ctm200-<version number>-fs.tar** to the USB key

3. With the CTM powered off, insert the USB key into the CTM external USB port and then power on the CTM.
4. When you can access the command-line interface (Telnet/SSH/serial console), mount the USB key using the following commands:  
**mkdir /tmp/usb**  
**mount /dev/sda1 /tmp/usb**
5. Copy the firmware from the USB key to the CTM, and unmount the USB key using these commands:  
**cp /tmp/usb/ctm200-<version number>-fs.tar /tmp**  
**umount /dev/sda1**  
**rmdir /tmp/usb**
6. Start the firmware upgrade using this command:  
**cmd upgradefw ctm200-<version number>-fs.tar localhost**
4. The firmware upgrade completes with the message “Firmware update completed successfully - rebooting now!”. After seeing this message, the unit will power cycle once before returning to normal operation.

## 3. Embedded Web Browser Upgrade



### 3.1 Upgrade from Local PC

1. Download firmware to a PC from <http://cypress.bc.ca/repository/openctm/ctm200r2/bin/>
2. Log into CTM-200 web pages
3. Go to the **System** web page and under **Firmware Update** browse to the location of the firmware downloaded in Step 1
4. Click **Install Firmware**
5. The firmware upgrade completes with the message "Firmware update completed successfully - rebooting now!". After seeing this message, the unit will power cycle once before returning to normal operation.

### Technical Support

**Cypress Solutions Service  
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