



# PRODUCT ALERT: GPS WEEK ROLLOVER BUG

Model	CTM-200 R1
Revision:	1.4

## Revision Control

Description	Revision	Date
Document started	1.0	09Apr2019
Added firmware location for other STM versions 907,917,922,925,930	1.1	10Apr2019
Added firmware location for other STM versions 906,909,911,913,924	1.2	11Apr2019
Added firmware location for STM versions 270,926	1.3	15Apr2019
Updated file location based on new repository	1.4	26Nov2021

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### 2. OVERVIEW

In mid-February Cypress was made aware of a flaw in some older GPS chipsets that would cause the modules to stop functioning properly due to the inability of the GPS chipset to handle a date rollover. Cypress immediately reached out to its vendors who supply the GPS chipsets for its products as to possible impact. We were informed that the models of chipsets integrated into the Cypress products were not affected. Unfortunately, this information was incorrect for the older **1<sup>st</sup> Generation CTM-200 R1** product manufactured between 2010-2014. This bug does **NOT** affect the CTM-200 R2 or CTM-ONE product.

### 3. REMEDY

Cypress has produced a small firmware fix that takes into account the day/month/year mismatch and realigns the value to the correct date, resulting in the module performing as expected.

This is an upgrade to the (mini-micro) STM firmware only and will not affect other features or configurations.

There are different variants of the STM mini-micro firmware, depending on what version is running on the device the appropriate image needs to be loaded.

To verify your firmware version enter the following command:

from the command line interface (cli):

```
cmd ver
r2.0.5.5289-270
```

or via the Web UI (far right of screen):

<b>r2.0.5.5289-270</b>	<b>Host:</b> CTM200
<b>Uptime:</b> 2:33	<b>Date:</b> 2019-04-09
<b>Time:</b> 18:51:20	<b>Load:</b> 1.64, 1.41, 1.28

The numbers following the “-” indicate the STM firmware version. If your devices have an STM version greater than 900 please contact Cypress Solutions.

If you have questions on what version of firmware your device is running or are unable to locate this information, please contact Cypress Solutions.

The update can be applied via remote management tools installed on customer premises or through Cypress managed services, CTM Manager or CCM. If you require assistance with applying this update please contact Cypress Solutions Service Support Group.

#### 3.1 STM version less than 900

This update can be applied to any CTM-200 R1 modems running on STM firmware versions less than 900.

Upgrade to version **R270**

Update available at:

<https://filestore.cypress.bc.ca/files/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R270-103.bin.tar>

To apply the update, a command can be issued from the command line or remotely:  
from command line of a device that has an active connection:

```
cmd stm upgrade http://www.cypress.bc.ca/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R270-103.bin.tar
```

### 3.2 STM version 907

This update can be applied to any CTM-200 R1 modems running on STM firmware versions 907

Upgrade to version **R936**

Update available at:

<https://filestore.cypress.bc.ca/files/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R936-103.bin.tar>

To apply the update, a command can be issued from the command line or remotely:  
from command line of a device that has an active connection:

```
cmd stm upgrade http://www.cypress.bc.ca/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R936-103.bin.tar
```

### 3.3 STM version 917,922,925,930

This update can be applied to any CTM-200 R1 modems running on STM firmware versions 917,922,925,930

Upgrade to version **R937**

Update available at:

<https://filestore.cypress.bc.ca/files/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R937-103.bin.tar>

To apply the update, a command can be issued from the command line or remotely:  
from command line of a device that has an active connection:

```
cmd stm upgrade http://www.cypress.bc.ca/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R937-103.bin.tar
```

### 3.4 STM version 906,909

This update can be applied to any CTM-200 R1 modems running on STM firmware versions 906,909

Upgrade to version **R938**

Update available at:

<https://filestore.cypress.bc.ca/files/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R938-103.bin.tar>

To apply the update, a command can be issued from the command line or remotely:  
from command line of a device that has an active connection:

```
cmd stm upgrade http://www.cypress.bc.ca/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R938-103.bin.tar
```

### 3.5 STM version 911,913,924

This update can be applied to any CTM-200 R1 modems running on STM firmware versions 911,913,924

Upgrade to version **R939**

Update available at:

<https://filestore.cypress.bc.ca/files/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R939-103.bin.tar>

To apply the update, a command can be issued from the command line or remotely:  
from command line of a device that has an active connection:

```
cmd stm upgrade http://www.cypress.bc.ca/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R939-103.bin.tar
```

### 3.6 STM version 926

This update can be applied to any CTM-200 R1 modems running on STM firmware versions 911,913,924

Upgrade to version **R939**

Update available at:

<https://filestore.cypress.bc.ca/files/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R940-103.bin.tar>

To apply the update, a command can be issued from the command line or remotely:  
from command line of a device that has an active connection:

```
cmd stm upgrade http://www.cypress.bc.ca/repository/openctm/ctm200/bin/CTM2xxMiniMicro-CRC-R940-103.bin.tar
```

**Technical Support****Cypress Solutions Service  
Support Group**

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