



transforming the way the world works



FW Upgrading

Basic Idea of FW upgrading from v1.0.2.3 to v1.2.0.0 is to have two steps upgrading.

First, Downgrade FW from v1.0.2.3 to v1.0.0.0.

Second, Upgrade FW again from v1.0.0.0 to v1.2.0.0.

Since v1.0.2.3 is an engineering version FW, it should be downgraded first to a production FW(GA version) which is v1.0.0.0.

After getting back to v1.0.0.0, Upgrade to the latest production FW(GA version) which is v1.2.0.0.

GM200 WebUI Configuration

Input IP address of GM200 Management interface

The factory default settings for the Ethernet-2 network port are as follows:

- IP Address: 192.168.2.250
- Mask: 255.255.255.0
- Gateway: 0.0.0.0

System Status

Alarm Status Critical	Input Status GNSS: Init
Configuration Status Configuration is saved	Product ID 111224-10
Management Port Status Connected 1000MB	Software Version 20181203-1.0.2.3
Ethernet Port 0 Status Not Present	Date (GNSS UTC) 01/01/1970 00:04
Ethernet Port 1 Status Not Connected	Up Time 00:03

Check the FW version. It should be v1.0.2.3

Home Contact Privacy Statement Terms Of Use Copyright ©2015-1970, Trimble Inc.

GM200 WebUI Configuration

Login

Welcome.
Login for more detailed views.

Thunderbolt PTP GM200

Transforming the way the world works

System Status

Alarm Status OK	Input Status GNSS: Lock
Configuration Status Configuration is not saved	Model 111224-00
Management Port Status Connected 1000MB	Version 20171003-0.0.7.0
Ethernet Port 0 Status Connected 1000MB	Time (UTC) 10/25/2017 05:09
Ethernet Port 1 Status Connected 1000MB	Up Time 23:18

Home Contact Privacy Statement Terms Of Use Copyright ©2015-2017, Trimble Inc.

The factory default settings for the Ethernet-2 network port are as follows:

- IP Address: 192.168.2.250
- Mask: 255.255.255.0
- Gateway: 0.0.0.0

- Username: trimble
- Password: trimble
- Access level: User

- Username: trimbleadmin
- Password: trimbleadmin
- Access level: Admin

- Username: trimblesuper
- Password: trimblesuper
- Access level: Super

Welcome.
Login for more detailed views.

Thunderbolt PTP GM200

Transforming the way the world works

System Access

trimblesuper

.....

Authorize

GM200 FW Upgrading

Logout Disable auto-logout Welcome *trimblesuper*.
You have *super* access rights.

Trimble
Transforming the way the world works

Thunderbolt PTP GM200

System Configuration

System Configuration	System Firmware
<u>Current System Version</u> 20181203-1.0.2.3	<u>Current GNSS Version</u> 20180403-1.5.0.0
	<u>Current FPGA Version</u> 18.3.15

Firmware Patch Staging

Choose File | No file chosen

Upload Patch File Reset Upload

System Patches	GNSS Patches
<input type="radio"/> 20181203-1.0.2.3.pkg	<input type="radio"/> ResSMT360_v1.05.bin

Update System Unstage Patch

Procedure of FW Uploading

1. Click "System management".
2. Then, Click "System".
3. Click "System Firmware".



GM200 FW Upgrading

Logout Disable auto-logout Welcome *trimblesuper*.
You have *super* access rights.

Trimble
Transforming the way the world works

Thunderbolt PTP GM200

System Configuration

4 Firmware lists are being generated, please wait...

System Configuration | System Firmware

5

Current System Version	Current GNSS Version	Current FPGA Version
20181203-1.0.2.3	20180403-1.5.0.0	18.3.15

Firmware Patch Staging

Choose File | No file chosen

Upload Patch File Reset Upload

6

System Patches	GNSS Patches
<input type="radio"/> 20181203-1.0.2.3.pkg	<input type="radio"/> ResSMT360_v1.05.bin

Update System Unstage Patch

Procedure of FW Uploading

4. Wait.... Until “Firmware lists are being generated, please wait...” message disappeared.
5. Then, You can see current FW versions installed.
6. Also, You can see all FW lists.

GM200 FW Unstaging

If you have other FW versions in the FW lists, please remove **ALL** from the list.

Logout Disable auto-logout
Welcome *trimblesuper*.
You have *super* access rights.

Transforming the way the world works

Thunderbolt PTP GM200

Thunderbolt™ PTP GM200
System Configuration

SYSTEM STATUS

INTERFACE MANAGEMENT

SYNCHRONIZATION MANAGEMENT

SECURITY MANAGEMENT

SYSTEM MANAGEMENT

Alarm System

System Configuration
System Firmware

Current System Version	Current GNSS Version	Current FPGA Version
20190516-1.2.0.0	20180403-1.5.0.0	18.3.15

Firmware Patch Staging

Choose File No file chosen

Upload Patch File
Reset Upload

System Patches

- 20190516-1.2.0.0.pkg
- 20181203-1.0.2.3.pkg
- 20180619-1.0.0.0.pkg

GNSS Patches

- ResSMT360_v1.05.bin

Update System
Unstage Patch

Select a FW one by one

Click "Unstage Patch"

GM200 FW Upgrading

Logout Disable auto-logout

Welcome *trimblesuper*.
You have *super* access rights.

Thunderbolt PTP GM200

System Configuration

System Configuration | **System Firmware**

Current System Version	Current GNSS Version	Current FPGA Version
20171003-0.0.7.0	20170515-1.4.0.0	18.3.15

7

Firmware Patch Upload

8

Choose File | No file chosen

Upload Patch File | Reset Upload

System Patches | GNSS Patches

--no entries--

Update Patches via Command Line Interface

Procedure of FW Uploading

- Click "CONFIGURE" Icon to activate FW upgrading.
- Click "Choose file" to find a FW file.
- You can see a window which you can find the v1.0.0.0 FW. After choosing the file, click Open. Then, the window will be closed.

Open

« Thunderbot GM » GM200 » FW » Latest version » v1.2.0.0

Search v1.2.0.0

Name	Date modified	Type	Size
GM200_v0.0.7.0_to_v1.0.0.0.tar.gz	2019-05-10 오전 8:...	ALZip GZ File	18,589 KB
GM200	2019-05-21 오후 4:...	ALZip GZ File	34,703 KB

Type: ALZip GZ File
Size: 18.1 MB
Date modified: 2019-05-10 오전 8:47

File name: GM200_v0.0.7.0_to_v1.0.0.0.tar.gz

Custom files (*.gz;*.tgz)

9

GM200 FW Upgrading

Logout Disable auto-logout Welcome *trimblesuper*.
You have *super* access rights.

Trimble
Transforming the way the world works

Thunderbolt PTP GM200

System Configuration

System Configuration **System Firmware**

Current System Version	Current GNSS Version	Current FPGA Version
20181203-1.0.2.3	20180403-1.5.0.0	18.3.15

Firmware Patch Staging

Choose File **GM200_v0.0.7.0_to_v1.0.0.0.tar.gz**

10 ↓

11 → **Upload Patch File** Reset Upload

System Patches	GNSS Patches
<input type="radio"/> 20181203-1.0.2.3.plg	<input type="radio"/> ResSMT360_v1.05.bin

Update System Unstage Patch

Procedure of FW Uploading

10. You can see the selected FW which is GM200_v0.0.7.0_to_v1.0.0.0.tar.gz.
11. Click “Upload Patch file”

GM200 FW Upgrading

Logout Disable auto-logout Welcome *trimblesuper*.
You have *super* access rights.

Trimble
Transforming the way the world works

Thunderbolt PTP GM200

System Configuration

12

File upload is 78% complete

Current System Version	Current GNSS Version	Current FPGA Version
20181203-1.0.2.3	20180403-1.5.0.0	18.3.15

Firmware Patch Staging

Choose File: GM200_v0.0.7.0_to_v1.0.0.0.tar.gz

Upload Patch File Reset Upload

System Patches	GNSS Patches
<input type="radio"/> 20181203-1.0.2.3.pkg	<input type="radio"/> ResSMT360_v1.05.bin

Update System Unstage Patch

Procedure of FW Uploading

12. You can see a progressing message as below.

Total file progress is 1% → 100%



Validating Firmware



Firmware being staged



Firmware successfully staged

GM200 FW Upgrading

Logout Disable auto-logout Welcome *trimblesuper*.
You have *super* access rights.

Trimble
Transforming the way the world works

Thunderbolt PTP GM200

System Configuration

Firmware successfully staged

System Configuration	System Firmware
<p><u>Current System Version</u> 20181203-1.0.2.3</p> <p><u>Current GNSS Version</u> 20180403-1.5.0.0</p> <p><u>Current FPGA Version</u> 18.3.15</p>	<p><u>Firmware Patch Staging</u></p> <p>Choose File: GM200_v0.0.7.0_to_v1.0.0.0.tar.gz</p> <p>Upload Patch File Reset Upload</p>

System Patches **GNSS Patches**

- 20181203-1.0.2.3.pkg
- 20180619-1.0.0.0.pkg
- ResSMT360_v1.05.bin

Update System Unstage Patch

13 **14**

Procedure of FW Uploading

- When you see the “Firmware successfully staged”,
- Then, you will see the added FW in the list which is “20180619-1.0.0.0.pkg”.

GM200 FW Upgrading

Logout Disable auto-logout Welcome *trimblesuper*.
You have *super* access rights.

Trimble
Transforming the way the world works

Thunderbolt PTP GM200

System Configuration

Firmware successfully staged

System Configuration System Firmware

Current System Version	Current GNSS Version	Current FPGA Version
20181203-1.0.2.3	20180403-1.5.0.0	18.3.15

Firmware Patch Staging

Choose File | GM200_v1.0.0.0_to_v1.2.0.0.tar.gz

Upload Patch File Reset Upload

System Patches	GNSS Patches
<input type="radio"/> 20190516-1.2.0.0.pkg <input type="radio"/> 20181203-1.0.2.3.pkg <input type="radio"/> 20180619-1.0.0.0.pkg	<input type="radio"/> ResSMT360_v1.05.bin

Update System Unstage Patch

15

Procedure of FW Uploading

15. Uploading one more FW which is 20190516-1.2.0.0.pkg with same sequence as previous uploading.

Then, you will see total three FWs on your FW list.

GM200 FW Upgrading

Logout Disable auto-logout Welcome *trimblesuper*.
You have *super* access rights.

Thunderbolt PTP GM200

System Configuration

System Configuration **System Firmware**

Current System Version	Current GNSS Version	Current FPGA Version
20181203-1.0.2.3	20180403-1.5.0.0	18.3.15

Firmware Patch Staging

Choose File No file chosen

Upload Patch File Reset Upload

System Patches	GNSS Patches
<input type="radio"/> 20190516-1.2.0.0.pkg <input type="radio"/> 20181203-1.0.2.3.pkg <input checked="" type="radio"/> 20180619-1.0.0.0.pkg	<input type="radio"/> ResSMT360_v1.05.bin

Update System Unstage Patch

Procedure of FW Uploading

16. Click "CONFIGURE" Icon to activate FW upgrading.
17. Select the FW "20180619-1.0.0.0.pkg".
18. Then, Click the "Update System".

Now System starts upgrading FW to v1.0.0.0

GM200 FW Upgrading

The screenshot shows the 'System Configuration' page for a Thunderbolt PTP device. The 'System Firmware' tab is active. The current system version is 20181203-1.0.2.3 and the current GNSS version is 20180403-1.5.0.0. Under 'Firmware Patch Staging', there is a 'Choose File' button with 'No file chosen' text. Below that are 'Upload Patch File' and 'Reset Upload' buttons. The 'System Patches' section lists three files: 20190516-1.2.0.0.plg, 20181203-1.0.2.3.plg, and 20180619-1.0.0.0.plg. The 'GNSS Patches' section lists 'ResSMT360_v1.05.bin'. At the bottom, there are 'Update System' and 'Unstage Patch' buttons. A modal dialog box is overlaid on the right, titled '192.168.2.250 says'. It contains the following text: 'Suggested actions before updating system: * Ensure system configuration is saved. * Logoff other users/sessions.' Below this is 'Update system with patch:' followed by 'When confirmed this session will be logged off. The system will automatically restart after the update is complete.' At the bottom of the dialog are 'OK' and 'Cancel' buttons. A red circle with the number '19' and a yellow arrow points to the 'OK' button.

Procedure of FW Uploading

19. WebUI will create a new window for confirmation and Click OK for upgrading.

GM200 FW Upgrading

System Status
System update is in progress. Unpacking update

System Status
System update is in progress. Creating backup **20**

System Status
System update is in progress. Installing update...

21
This site can't be reached
192.168.2.250 refused to connect.
Try:
• Checking the connection
• Checking the proxy and the firewall
ERR_CONNECTION_REFUSED
Reload Details

Procedure of FW Uploading

20. It will show below messages step by step...
 - Unpacking update
 - Creating backup
 - Installing update...
21. When all sequence is done, then GM200 will be rebooted and your WebUI connection will be lost.

GM200 FW Upgrading

After rebooting, reconnect the GM200 with WebUI.

Login
Welcome.
Login for more detailed views.



Transforming the way the world works



Thunderbolt PTP GM200

System Status

<p>Alarm Status Critical</p> <p>Configuration Status Configuration is saved</p> <p>Management Port Status Connected 1000MB</p> <p>Ethernet Port 0 Status Not Present</p> <p>Ethernet Port 1 Status Not Connected</p>	<p>Input Status GNSS: Init</p> <p>Product ID 111224-10</p> <p>22 Software Version 20180619-1.0.0.0</p> <p>Time (UTC) 01/01/1970 00:10</p> <p>Up Time 00:10</p>
---	--

Check the FW version.
It should be v1.0.0.0

Home
Contact
Privacy Statement
Terms Of Use
Copyright ©2015-1970, Trimble Inc.

GM200 FW Upgrading

Upgrading again from V1.0.0.0 to V1.2.0.0.

Logout Disable auto-logout Welcome *trimblesuper*.
You have *super* access rights.

Trimble
Transforming the way the world works

Thunderbolt PTP GM200

System Configuration

System Configuration **System Firmware**

Current System Version	Current GNSS Version	Current FPGA Version
20181203-1.0.2.3	20180403-1.5.0.0	18.3.15

Firmware Patch Staging

Choose File No file chosen

Upload Patch File Reset Upload

System Patches	GNSS Patches
<input type="radio"/> 20190516-1.2.0.0.pkg <input type="radio"/> 20181203-1.0.2.3.pkg <input checked="" type="radio"/> 20180619-1.0.0.0.pkg	<input type="radio"/> ResSMT360_v1.05.bin

Update System Unstage Patch

Procedure of FW Uploading

23. Click "CONFIGURE" Icon to activate FW upgrading.
24. Select the FW "**20190516-1.2.0.0.pkg**".
25. Then, Click the "Update System".

Now System starts upgrading FW to v1.2.0.0

GM200 FW Upgrading

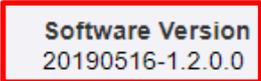
Login Welcome.
Login for more detailed views.

 **Thunderbolt PTP GM200**
Transforming the way the world works



System Status

Alarm Status Critical	Input Status GNSS: Init
Configuration Status Configuration is saved	Product ID 111224-10
Management Port Status Connected 1000MB	Software Version 20190516-1.2.0.0
Ethernet Port 0 Status Not Present	Date (GNSS UTC) 01/01/1970 00:10
Ethernet Port 1 Status Not Connected	Up Time 00:09

26  **Check the FW version.
It should be v1.2.0.0**

[Home](#) [Contact](#) [Privacy Statement](#) [Terms Of Use](#) [Copyright ©2015-2018, Trimble Inc.](#)

Now, you have done the FW upgrading successfully to the latest version!

Thank You!