

LT1-GOES v1: replaces FW version 1.11.23 and earlier

LT1-GOES v2: replaces FW version 2.2.23 and earlier

## THIS IS A MANDATORY UPDATE

Firmware updates should be installed when they are released as they include new or enhanced features, or modifications to improve performance, including bug fixes. They also incorporate changes from previous updates thus ensuring optimum performance. It is important to wait until the firmware update has completed before taking any other action with the station.

### IMPORTANT:



- **FTS supplied SD cards\* should be re-inserted into the LT1 upon completion of the update.**
- **Update to the most current version of the FTS360 App before conducting any firmware updates.**
- **Download the firmware files before going to the field.**
- **360.ftsinc.com will automatically download both FW upgrade variants (for version 1 and version 2 models). Bring both to the field: the LT1-GOES will only accept the FW version specific to its model.**

\*This SD card has been tested to work with the LT1's embedded system and in the environmental conditions in which the LT1 is designed to operate. Failure to replace it or replacing it with a non-certified (standard) SD card can compromise the station's logs.

	(IMPROVEMENT)	<b>Ensures valid time synchronization after reboot/power cycle</b>	LT-1495
--	---------------	--	---------

It was noted that LT1s operating firmware version 1.11.23 or 1.2.23 can stop transmitting and logging after a reboot or power cycle under specific circumstances due to a minor fault in the time synchronization function. This issue is rectified with this firmware update.

### HOW TO UPDATE THE FIRMWARE ON AN LT1-GOES

Updating an LT1-GOES station's firmware will require either a smart device or a Windows 10 PC with the FTS360 Config App downloaded to it and a site visit. Note that the firmware files must be downloaded prior to going to the site.



Serial Number and model

Version 1 models are identified as LT1-GOES;

Version 2 models are identified as LT1-GOESv2

Micro-B USB

SD card



## RELEASE NOTES: LT-GOES Firmware Update rev 1

FW Version 1.11.25 for LT1-GOES v1

FW Version 2.2.25 for LT1-GOES v2

Released: January 8, 2021

### Updating using the FTS360 Config App on a smart device:

You require a FAT32 formatted SD card, a device capable of downloading to an SD card, and a site visit to the LT1-GOES station.

- 1) From [360.ftsinc.com](http://360.ftsinc.com), go the Station's page and select the "Edit Station" button.
- 2) Select the Download Firmware button.

Note: The firmware file will be saved with the following naming nomenclature:

**LT1\_GOES\_APP\_[FW ver].bin**

Example: For FW update ver 1.11.25 the file appears as LT1\_GOES\_APP\_1\_11\_25.bin

- 3) Follow the prompts to download the firmware update to the SD card. Both FW versions will be automatically downloaded (see IMPORTANT box on page 1). However, a prompt requesting the multiple file download may appear the first time this is done.
- 4) Prepare for a site visit (sync the FTS360 Config App and bring the SD card)
- 5) At the site, connect to the station.
- 6) On the Station Dashboard, select the Station arrow, then the "Update Firmware From SD Card" button. Follow the prompts.

IMPORTANT! DO NOT use the FTS360 Config App until the FW update has completed.

- 7) Upon completion of the update, you will automatically be disconnected from the station. Re-connect to the station.
- 8) Safely eject the SD card used for the firmware update (from the Station Dashboard page select the SD Card line and then the "Safely remove SD card" button. Follow the prompts.)
- 9) Replace the station's original SD card for logging.

### Updating using the FTS360 Config App on a Windows 10 PC:

You will need a computer running Windows 10 and a Micro-B data-USB cable

- 1) From [360.ftsinc.com](http://360.ftsinc.com), go to the Station's page and select the "Edit Station" button.
- 2) Select the Download Firmware button.
- 3) Follow the prompts to download the firmware update to your PC. Copy both downloaded files to an accessible folder on the PC (see IMPORTANT box on page 1).



## RELEASE NOTES: LT-GOES Firmware Update rev 1

FW Version 1.11.25 for LT1-GOES v1

FW Version 2.2.25 for LT1-GOES v2

Released: January 8, 2021

Note: The firmware file will be saved with the following naming nomenclature:

**LT1\_GOES\_APP\_[FW ver].bin**

Example: For FW update ver 1.11.25 the file appears as LT1\_GOES\_APP\_1\_11\_25.bin

- 4) Prepare for a site visit (sync the FTS360 Config App and bring the data-USB cable)
- 5) At the site, connect the PC to the station using the data-USB cable.
- 6) On the Station Dashboard, select the Station arrow, then the Update Firmware button. Follow the prompts.

**IMPORTANT! DO NOT use the FTS360 Config App until the FW update has completed.**