



Certificate of Volatility Model Name: Teensy 4.1

September 25, 2026

This document describes volatile and non-volatile storage media of the above noted model.

Memory

Item	Size (bytes)	Volatile / Non-Volatile	User Writable	Function
Flash	8126464	non-volatile	Yes	User firmware code, optional data storage
Flash	258048	non-volatile	Yes	User parameters (EEPROM emulation)
Flash	4096	non-volatile	No	Restore program
RAM	1048576	volatile	Yes	Data
Fuses	192	permanent	Partial	Boot and security configuration
RTC	32	volatile battery	Yes	User parameters
Peripherals	-	volatile	Yes	Communication and I/O features
Bootloader	65536	non-volatile	No	Provides capability to write and clear flash



Clearing Procedure:

1. Press the pushbutton for 13 to 17 seconds
2. Watch for brief blink of red LED (near USB) indicating 13 second mark
3. Red LED lights bright during erase, approximately 1 minute
4. Restore program is copied to user firmware flash
5. Teensy reboots, red LED turns off
6. Restore program slowly blinks orange LED (near pushbutton)
7. Restore program implements USB RawHID

To confirm successful flash cleared, watch for red LED on steady followed by slow orange LED blink, and/or Arduino IDE detect RawHID in connected hardware drop-down list or Tools > USB Type menu.

Volatile Memory Clearing Procedure

Disconnect power all power.

To clear RTC volatile registers, any coin cell or battery connected to VBAT pin must be removed.

Fuse Configuration

Boot and security configuration fuses can not be cleared. Fuses “blown” to configure system boot provide permanent irreversible hardware configuration.



Bootloader and Restore Program

These non-volatile memories are never user writable. They provide the ability to load new firmware, and to perform flash memory clearing.

Kristen Moorefield

Kristen Moorefield
COO

Audit trail

Details

FILE NAME2026 - Statement of Volatility_Teensy - 9/25/26, 10:59 AM

STATUS● Signed

STATUS TIMESTAMP2026/09/25
17:00:10 UTC

Activity



SENT

kristen.moorefield@sparkfun.com **sent** a signature request to:
• Kristen Moorefield (kristen.moorefield@sparkfun.com)

2026/09/25
16:59:32 UTC



SIGNED

Signed by Kristen Moorefield (kristen.moorefield@sparkfun.com)

2026/09/25
17:00:10 UTC



COMPLETED

This document has been signed by all signers and is **complete**

2026/09/25
17:00:10 UTC

The email address indicated above for each signer may be associated with a Google account, and may either be the primary email address or secondary email address associated with that account.