

USB-SA124B Statement of Volatility

This document pertains to the USB-SA124B, all serial numbers and versions.

Non-Volatile Memory

The USB-SA124B contains an SPI flash memory IC. This non-volatile memory contains amplitude and frequency correction data over its operating temperature range, and 10 MHz time base correction data.

The USB-SA124B also contains a PIC32MX microcontroller with internal flash memory. This flash memory is used exclusively for the microcontroller's firmware. Additionally, there is an FTDI FT2232H with internal non-volatile memory, used for USB enumeration and for storing 10 MHz time base corrections during calibration adjustment.

Non-volatile memory is modified during initial programming, as well as during calibration adjustment and firmware update procedures. Neither the Spike software nor the Application Programming Interface (API) modifies the USB-SA124B's non-volatile memory.

Volatile Memory

Several ICs, including the microcontroller, LO synthesizers, and ADC contain volatile configuration registers.

All volatile memory is erased when power is removed from the device.

Host PC

The Host PC running Spike software stores correction data, user presets, and recorded files to the PC's hard drive. User presets contain sensitive information such as frequencies of interest and measurement settings, and are saved by default to C:\Users\[user name]\AppData\Roaming\SignalHound. Recorded files contain sensitive information such as frequencies, amplitudes, and other characteristics of observed signals, and are saved by default to C:\Users\[user name]\Documents\SignalHound.

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