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**USB-6218**

**Board Assembly Part Number(s)**

Part Number	Description
194710E-01L	NI USB-6218

**Manufacturer:** National Instruments

**Volatile Memory**

Type <sup>i</sup>	Size	User Accessible/ System Accessible <sup>ii</sup>	Battery Backup?	Purpose	Method of Clearing <sup>iii</sup>
Microcontroller	20 KB	No/Yes	No	Acquired Data, User Data, Settings	Cycle power
FPGA 1	6.5 KB	No/Yes	No	Acquired Data, User Data	Cycle Power
FPGA 2	40 KB	No/Yes	No	Acquired Data, User Data	Cycle Power
SRAM	128 KB	No/Yes	No	Program Code	Cycle Power

**Non-Volatile Memory**

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
EEPROM	2 KB	No/Yes	No	Serial Number, Configuration, Calibration & Cal Password	See notes

**Media Storage**

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
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NONE

**Clearing Notes:**

**EEPROM:** The only section of the EEPROM modifiable by users is the self and external calibration areas (including calibration password). No other section of the flash is modifiable by the user. See the device manual for information on how to modify the self and external calibration areas using DAQmx.

### Terms and Definitions

**User Accessible** Allows the user to directly write or modify the contents of the memory during normal instrument operation.

**System Accessible** Does not allow the user to access or modify the memory during normal instrument operation. However, system accessible memory may be accessed or modified by background processes. This can be something that is not deliberate by the user and can be a background driver implementation, such as storing application information in RAM to increase speed of use.

**Cycle Power** The process of completely removing power from the device and its components. This process includes completely disconnecting the device from the USB port and not just the shutdown of the PC and/or chassis containing the device.

**Volatile Memory** Requires power to maintain the stored information. When power is removed from this memory, its contents are lost.

**Non-Volatile** Retains its contents when power is removed. This type of memory typically contains calibration or chip configuration information, such as power up states.

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<sup>i</sup> Calibration constants that are stored in device Flash include information for the device's full operating range. Calibration constants do not maintain any unique data for specific configurations at which the device is used unless otherwise specified.

<sup>ii</sup> Items are designated **No** for the following reason(s):

- a) Hardware changes or a unique software tool from National Instruments are required to modify contents of the memory listed.
- b) Hardware-modifying software tools are not distributed to customers for any personal access or customization, also known as non-normal use.

<sup>iii</sup> The designation *None Available to User* indicates that the ability to clear this memory is not available to the user under normal operation. The utilities required to clear the memory are not distributed by National Instruments to customers for normal use.