



# NATIONAL INSTRUMENTS USB-6001 Multifunction I-O Device User Guide

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Letter of Volatility Under Normal Use Conditions  
NI USB-6001/6002/6003  
NI USB-6001/6002/6003 OEM

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## USB-6001 Multifunction I-O Device

### Board Assembly Part Number(s)

Part Number	154424C-03L	154643B-03L	154424C-02L	154643B-02L	154424C-01L	154643B-01L
Description	NI USB-6001	NI USB-6001 OEM	NI USB-6002	NI USB-6002 OEM	NI USB-6003	NI USB-6003 OEM

Manufacturer: National Instruments  
Volatile Memory

Type	Size	User Accessible/ 1 System Accessible	Battery Backup?	Purpose	Method of Clearing <sup>2</sup>
Microcontroller integrated RAM	Up to 24 kB	Yes/Yes	No	Code Memory and Data Buffering	Cycle Power

### Non-Volatile Memory

Type <sup>3</sup>	Size	User Accessible/ System Accessible	Battery Backup ?	Purpose	Method of Clearing
Microcontroller integrated EEPROM	2 kB	No/Yes	No	Device Configuration	None available to user
Microcontroller integrated Flash	Up to 64 kB	No/Yes	No	Firmware Code	None available to user

### Media Storage

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

### 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

- Items are designated No for the following reason(s):
  - Hardware changes or a unique software tool from National Instruments are required to modify contents of the memory listed.
  - Hardware-modifying software tools are not distributed to customers for any personal access or customization, also known as non-normal use.
- 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.
- Calibration constants that are stored in device EEPROMs 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.

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 a complete shutdown of the PC and/or chassis containing the device; a reboot is not sufficient for the completion of this process.

**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.

## COMPREHENSIVE SERVICES

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## Documents / Resources



**[NATIONAL INSTRUMENTS USB-6001 Multifunction I-O Device](#)** [pdf] User Guide  
USB-6001, USB-6002, USB-6003, OEM 154424C-03L, 154643B-03L, 154424C-02L, 154643B-02L, 154424C-01L, 154643B-01L, USB-6001 Multifunction I-O Device, Multifunction I-O Device, I-O Device, Device

## References

- [NW USB-6001 National Instruments Multifunction I/O Device | Apex Waves](#)