

Board Assembly Part Number(s)

Description	Part Number (or later)
NI PXIe-6738	157038D-02L
NI PXIe-6739	157038D-01L

Manufacturer: National Instruments

Volatile Memory

Type ¹	Size	User Accessible/ System Accessible ²	Battery Backup?	Method of Clearing ³
Analog Output FIFO	72k x 16-bit	Yes/Yes	No	Cycle Power
Counter Input FIFO	512 x 32-bit	No/Yes	No	Cycle Power
Digital Input FIFO	256 x 32-bit	No/Yes	No	Cycle Power
Digital Output FIFO	2k x 32-bit	Yes/Yes	No	Cycle Power
Analog Input FIFO	4k x 16-bit	No/Yes	No	Cycle Power

Non-Volatile Memory

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
Flash	32Mbit	Yes/Yes	No	Device Configuration	None available to user

Media Storage

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

Clearing Notes:

Flash: The only section of the Flash modifiable by users is the self and external calibration areas (including calibration password) and the programmable power up states. 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 and power up states 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

¹ Calibration constants that are stored in device Flash memory 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.

² 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.

³ 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.

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.