Board Assembly Part Number(s)

Part Number	Description
190975E-02L or later	**PCI-7352**
190975E-04L or later	**PCI-7354**
190975E-06L or later	**PCI-7356**
190975E-08L or later	**PCI-7358**
190974G-02L or later	**PXI-7352**
190974G-04L or later	**PXI-7354**
190974G-06L or later	**PXI-7356**
190974G-08L or later	**PXI-7358**

Manufacturer: National Instruments

Volatile Memory

Type	Size	User Accessible/ System Accessible[1]	Battery Backup?	Purpose	Method of Clearing[2]
FPGA	*1,000,000 Gates*	*No/Yes*	*No*	*Encoder, Limits, DACs, ADCs, DSP Interface*	*Cycle power*
FPGA	*100,000 Gates*	*No/Yes*	*No*	*Microprocessor to Host Interface, Digital I/O*	*Cycle Power*
CPLD	*1,250 Gates*	*No/Yes*	*No*	*FPGA Configuration*	
SRAM	*512 KB x2*	*Yes/Yes*	*No*	*Used by the microprocessor. Also stores onboard variables which are user accessible*	*Cycle Power*
SRAM	*160 KB*	*No/Yes*	*No*	*Integrated RAM for DSP*	*Cycle Power*

Non-Volatile Memory

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
EEPROM	*8 KB*	*No/Yes*	*No*	*PCI Configuration*	*None available to user*
Flash	*2 MB*	*Yes/Yes*	*No*	*Stores onboard programs, FPGA bitstreams, DSP initialization, microprocessor boot image, buffers, and user defaults. The user can modify the onboard programs, buffers, and user default values*	*Flash memory pointers can be cleared by using the memory management function or by using MAX. The flash is not actually cleared, but it is not accessible from any API.*

[1] 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.

[2] 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.

EDITION DATE January 2016
NI PART NUMBER 375919A-01

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Media Storage

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing

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 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.

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