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PCI-7354



**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/<br>System Accessible <sup>1</sup> | Battery<br>Backup? | Purpose   | Method of Clearing <sup>2</sup>  |
|-------------|------------|--|--------------------|---|--|
| FPGA        | 1,000,000  | Gates No/Yes                                       | No                 | Encoder, Limits, DACs,<br>ADCs, DSP Interface   | Cycle power  |
| FPGA        | 100,000 Ga | ntes No/Yes  | No                 | Microprocessor to Host<br>Interface, Digital I/O  | Cycle Power  |
| CPLD        | 1,250 Gate | s No/Yes   | No                 | FPGA Configuration  |  |
| SRAM        | 512 KB x2  | Yes/Yes  | No                 | Used by the microprocesso<br>Also stores onboard variab<br>which are user accessible                                | 2  |
| SRAM        | 160 KB     | No/Yes   | No                 | Integrated RAM for DSP  | Cycle Power  |
| Non-Volatil | e Memory   |  |                    |   |  |
| Type        | Size       | User Accessible/<br>System Accessible              | Battery<br>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,<br>FPGA bitstreams, DSP<br>initialization, microprocessor<br>boot image, buffers, and user | Flash memory pointers can<br>be cleared by using the<br>memory management<br>function or by using MAX. |

defaults. The user can modify the onboard programs, buffers,

and user default values

EDITION DATE January 2016 NI PART NUMBER 375919A-01 The flash is not actually

accessible from any API.

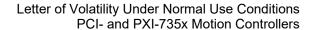
cleared, but it is not

<sup>&</sup>lt;sup>1</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.

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.





**Media Storage** 

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

**NONE** 

Type

#### **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.