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PCI-5640

Manufacturer: National Instruments

Board Assembly Part Numbers (Refer to Procedure 1 for identification procedure):

Part Number and Revision	Description
191295A-01(L) to 191295F-01(L)	PCI-5640R RIO IF Transceiver

Volatile Memory

<i>Target Data</i>	<i>Type</i>	<i>Size</i>	<i>Battery Backup</i>	<i>User¹ Accessible</i>	<i>System Accessible</i>	<i>Sanitization Procedure</i>
FPGA General User Memory	Block RAM	306 KB	No	Yes	Yes	Cycle Power
FPGA Distributed User Memory	LUTRAM	54 KB	No	Yes	Yes	Cycle Power
FPGA Embedded PC Cache	RAM	64 KB	No	Yes	Yes	Cycle Power
Driver data storage	SRAM	2 MB	No	No	Yes	Cycle Power

Non-Volatile Memory (*incl. Media Storage*)

<i>Target Data</i>	<i>Type</i>	<i>Size</i>	<i>Battery Backup</i>	<i>User Accessible</i>	<i>System Accessible</i>	<i>Sanitization Procedure</i>
Configuration Settings	EEPROM	2 KB	No	No	Yes	None

¹ Refer to *Terms and Definitions* section for clarification of *User* and *System Accessible*

Board Assembly Part Numbers (Refer to Procedure 1 for identification procedure):

Part Number and Revision	Description
191295G-01L or later	PCI-5640R RIO IF Transceiver

Volatile Memory

<i>Target Data</i>	<i>Type</i>	<i>Size</i>	<i>Battery Backup</i>	<i>User¹ Accessible</i>	<i>System Accessible</i>	<i>Sanitization Procedure</i>
FPGA General User Memory	Block RAM	306 KB	No	Yes	Yes	Cycle Power
FPGA Distributed User Memory	LUTRAM	54 KB	No	Yes	Yes	Cycle Power
FPGA Embedded PC Cache	RAM	64 KB	No	Yes	Yes	Cycle Power

Non-Volatile Memory (incl. Media Storage)

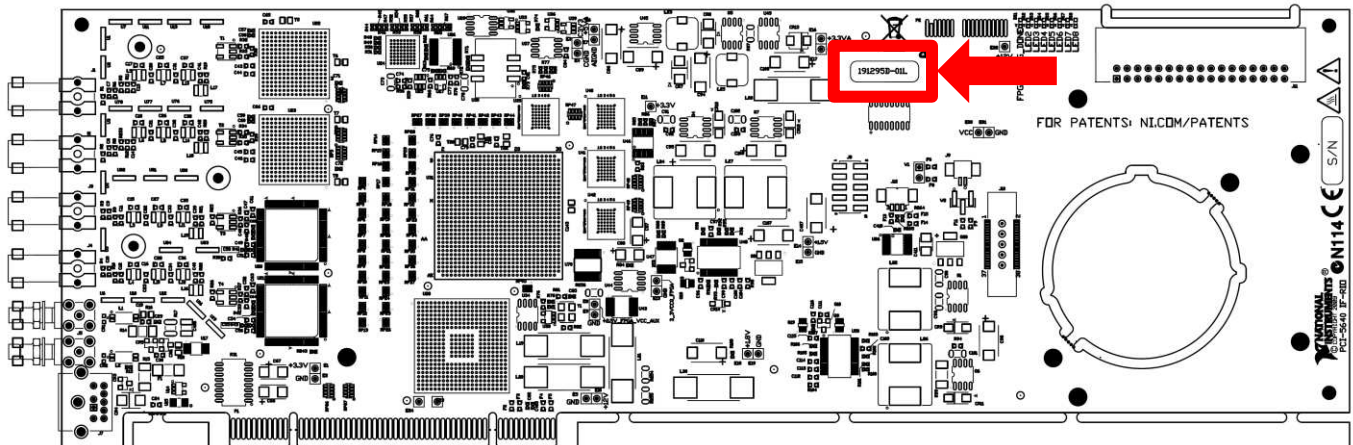
<i>Target Data</i>	<i>Type</i>	<i>Size</i>	<i>Battery Backup</i>	<i>User Accessible</i>	<i>System Accessible</i>	<i>Sanitization Procedure</i>
Configuration Settings	EEPROM	2 KB	No	No	Yes	None

¹ Refer to *Terms and Definitions* section for clarification of *User* and *System Accessible*

Procedures

Procedure 1 – Board Assembly Part Number Identification:

To determine the Board Assembly Part Number and Revision, refer to the solder mask or label applied to the surface of your product at the location shown in the diagram below. The Assembly Part Number should be formatted as “ASSY191295x-01”, “191295x-01”, or “191295x-01L” where “x” is the letter module revision.



Terms and Definitions

Cycle Power:

The process of completely removing power from the device and its components and allowing for adequate discharge. 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. This type of memory typically contains application specific data such as capture waveforms.

Non-Volatile Memory:

Power is not required to maintain the stored information. Device retains its contents when power is removed. This type of memory typically contains information necessary to boot, configure, or calibrate the product or may include device power up states.

User Accessible:

The component is read and/or write addressable such that a user can store arbitrary information to the component from the host using a publicly distributed NI tool, such as a Driver API, the System Configuration API, or MAX.

System Accessible:

The component is read and/or write addressable from the host without the need to physically alter the product.

Clearing:

Per *NIST Special Publication 800-88 Revision 1*, “clearing” is a logical technique to sanitize data in all User Accessible storage locations for protection against simple non-invasive data recovery techniques using the same interface available to the user; typically applied through the standard read and write commands to the storage device.

Sanitization:

Per *NIST Special Publication 800-88 Revision 1*, “sanitization” is a process to render access to “Target Data” on the media infeasible for a given level of effort. In this document, clearing is the degree of sanitization described.