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USB-7856



Board Assembly Part Number(s)

Part Number	Description
154803B-01L	70T Package
154803B-02L	160T Package
154803B-11L	70T OEM
154803B-12L	160T OEM

Manufacturer: National Instruments

Volatile Memory

Type ¹	Size	User Accessible/ System Accessible ²	Battery Backup?	Purpose	Method of Clearing ³
FPGA Block RAM	4860KB(70T)/ 11700KB(160T)	Yes/Yes	No	Data storage during VI Execution	Cycle Power
FPGA	41000 LUTs (70T)/ 101400 LUTs (160T) 240 DSP (70T)/ 600 DSP (160T)	No/Yes	No	Field Programmable Gate Array	Cycle Power

Non-Volatile Memory

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
FLASH	128 MB	Yes/Yes	No	Device Identification/ Calibration Data/ FPGA bitfile image	Erase bitfile by using the RIO device Setup Utility/Update Calibration Data by R Series Calibration VIs

Media Storage

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

¹ 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.

² 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.

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.



Letter of Volatility Under Normal Use Conditions
NI USB 7855R KINTEX-7 70T R SERIES MULTIFUNCTION RIO
NI USB 7856R KINTEX-7 160T R SERIES MULTIFUNCTION RIO
NI USB 7855R OEM KINTEX-7 70T R SERIES MULTIFUNCTION RIO
NI USB 7856R OEM KINTEX-7 160T R SERIES MULTIFUNCTION RIO

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.