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Manufacturer: NI

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

Part Number and Revision	Description
135077B-01L or later	PXIe-5842
1550//B-01L or later	PAIe-5842

Volatile Memory

		Battery	User ¹	System	Sanitization
Туре	Size	Backup	Accessible	Accessible	Procedure
DRAM	5 GB	No	Yes	Yes	Cycle Power
DRAM	5 GB	No	Yes	Yes	Cycle Power
DRAM	64 MB	No	Yes	Yes	Cycle Power
FPGA	Xilinx	No	Yes	Yes	Cycle Power
	XCKU085				
FPGA	Microchip	No	No	Yes	Cycle Power
	M2GL025				
SRAM	2 MB	No	Yes	Yes	Cycle Power
FPGA	Lattice	No	No	Yes	Cycle Power
	LCMXO3LF-				
	9400 (x2)				
FPGA	Lattice	No	No	Yes	Cycle Power
	LCMXO3D-				
	4300 (x2)				
FPGA /	Xilinx	No	Yes	Yes	Cycle Power
Processor	XCZU47DR				
DRAM	1 GB	No	No	Yes	Cycle Power
	DRAM DRAM DRAM FPGA FPGA SRAM FPGA FPGA FPGA / Processor	DRAM5 GBDRAM5 GBDRAM5 GBDRAM64 MBFPGAXilinxXCKU085FPGAMicrochipM2GL025SRAM2 MBFPGALatticeLCMXO3LF-9400 (x2)FPGALatticeLCMXO3D-4300 (x2)FPGA /XilinxProcessorXCZU47DR	TypeSizeBackupDRAM5 GBNoDRAM5 GBNoDRAM5 GBNoDRAM64 MBNoFPGAXilinxNoXCKU085VVFPGAMicrochipNoM2GL025NoNoSRAM2 MBNoFPGALatticeNoFPGALatticeNoFPGALatticeNoFPGALatticeNoFPGALatticeNoFPGA/XilinxNoProcessorXCZU47DRV	TypeSizeBackupAccessibleDRAM5 GBNoYesDRAM5 GBNoYesDRAM64 MBNoYesFPGAXilinxNoYesFPGAMicrochipNoNoM2GL025VVesSRAM2 MBNoYesFPGALatticeNoNoLCMXO3LF-9400 (x2)VesFPGALatticeNoNoFPGALatticeNoNoFPGA/XilinxNoYesFPGA/XilinxNoYesFPGA/XilinxNoYesProcessorXCZU47DRVesVes	TypeSizeBackupAccessibleAccessibleDRAM5 GBNoYesYesDRAM5 GBNoYesYesDRAM64 MBNoYesYesFPGAXilinxNoYesYesFPGAMicrochipNoNoYesFPGAMicrochipNoNoYesFPGALatticeNoYesYesFPGALatticeNoNoYesFPGALatticeNoNoYesFPGA/XilinxNoYesYesFPGA/XilinxNoYesYesFPGA/XilinxNoYesYesFPGA/XilinxNoYesYesFPGA/XilinxNoYesYesFPGA/XilinxNoYesYesFPGA/XilinxNoYesYes

Non-Volatile Memory (incl. Media Storage)

			Battery	User	System	Sanitization
Target Data	Туре	Size	Backup	Accessible	Accessible	Procedure
Device configuration	Flash	256 MB	No			
• Device information				No	Yes	None
• FPGA bitstream				No	Yes	None
Calibration Storage	Flash	4 GB	No			
Calibration metadata				Yes	Yes	Procedure 2
• Calibration data ²				No	Yes	None
Boot Flash (x2)	Flash	64 MB (x2)	No	No	Yes	None
Device Settings	EEPROM	32 KB	No	No	Yes	None
Power Up Configuration	FPGA	Microchip	No	No	Yes	None
		M2GL025				

Notice: This document is subject to change without notice. For the most recent version, visit ni.com/manuals.

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

² Calibration constants that are stored on the device include information for the device's full operating range. Any implications resulting from partial self-calibration can be eliminated by running the full self-calibration procedure.



Power Up Configuration (x2)	FPGA	Lattice LCMXO3LF- 9400 (x2)	No	No	Yes	None
Power Up Configuration (x2)	FPGA	Lattice LCMXO3D- 4300 (x2)	No	No	Yes	None



Procedures

Procedure 1 – Board Assembly Part Number identification:

To determine the Board Assembly Part Number and Revision, refer to the label applied to the surface of your product. The Assembly Part Number should be formatted as "P/N: 135077#-01L" where "#" is the letter revision of the assembly (e.g. A, B, C...).

Procedure 2 – Calibration Storage Flash (Calibration Metadata):

Requirements: LabVIEW version 2019 or later and NI-RFSG version 2022 Q4 or later that supports this model.

The user-accessible portion of the Calibration Storage Flash is limited to a programmable calibration password, which can be programmed through the NI-RFSG driver in the LabVIEW application. To clear the calibration password, complete the following steps in an empty LabVIEW VI and then run the VI:

- 1. Open an NI-RFSG session using the niRFSG Initialize VI.
- 2. To clear/reset the calibration password:
 - a. Add the niRFSG Change External Calibration Password VI after the niRFSG Initialize VI.
 - b. Specify the current password in the "password" input of the niRFSG Change External Calibration Password VI.
 - c. Wire an empty string (blank password) to the "new password" input of the niRFSG Change External Calibration Password VI.
- 3. Close the NI-RFSG session using the niRFSG Close VI.



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.