

Manufacturer: National Instruments

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

Part Number and Revision	Description
148778A-01L or later	STS T2M2 DX Test Head
148779A-01L or later	STS T2M2 CX Test Head

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>
System memory	DRAM	4 GB	No	No	Yes	Cycle Power
LabVIEW and user data	FPGA	Xilinx XC7Z020	No	Yes	Yes	Cycle Power
CPLD memory	CPLD	Lattice LCMX02- 640	No	No	Yes	Cycle Power
Time keeping	RTC	20 B	Yes	No	Yes	Procedure 2

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>
Primary storage	Flash	≤4 GB	No	No	No	None
• Firmware				Yes	Yes	Procedure 3
• Operating system				Yes	Yes	Procedure 3
• User data				Yes	Yes	Procedure 3

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

Procedures

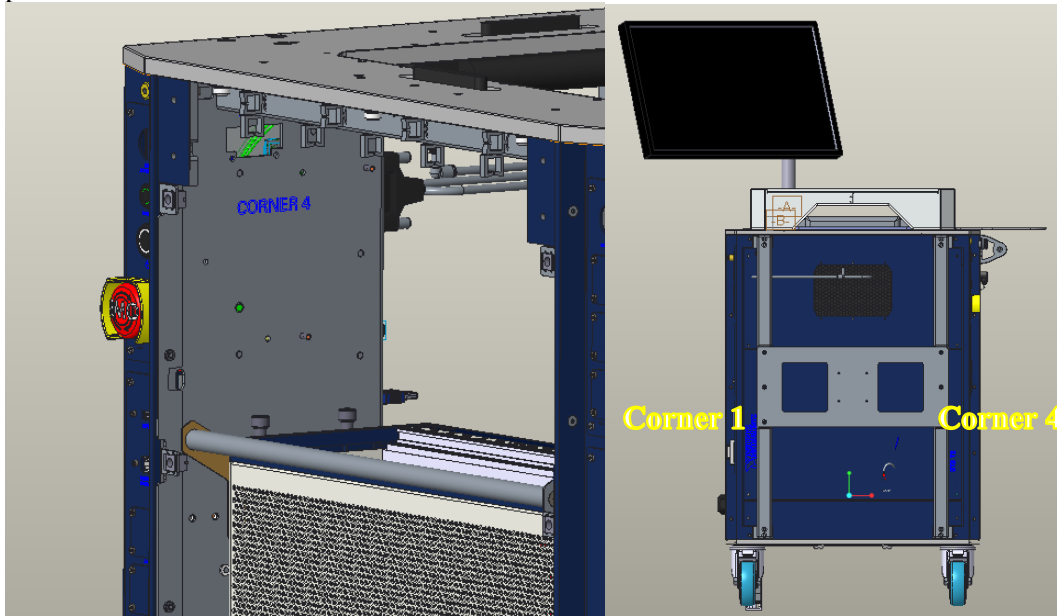
Procedure 1 – Board Assembly Part Number identification:

To determine the Board Assembly Part Number and Revision, refer to the label applied to the surface of your product. The Assembly Part Number should be formatted as “P/N 148778a-01L” for DX version or “P/N 147054a-01L” for CX version, where “a” is a capital letter indicating the revision (e.g. A, B, C...).

Procedure 2 - Time Keeping RTC:

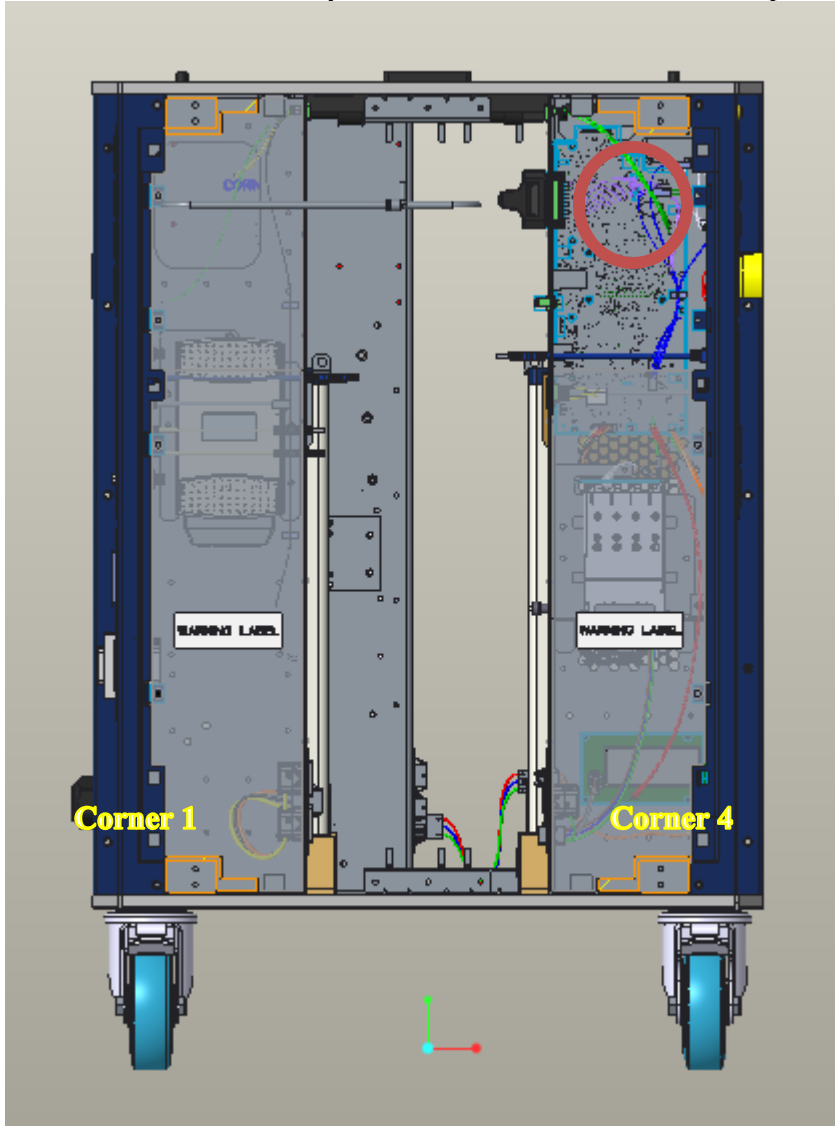
To clear the Time Keeping Real-Time Clock (RTC), complete the following steps:

1. Turn off master power at the external switch and unplug the power cable.
2. Remove the two pieces of blue metal on the Corner 1 and 4 sides of the tester. Corner number are printed on the frame.



3. Remove the protective metal cover on Corner 4.

- Remove the coin cell battery on the circuit board closest to the top.



- Wait for 5 minutes.

Procedure 3 – Primary Storage Flash (OS and User Data):

The Primary Storage Flash can be reformatted to clear the user-accessible areas. The format operation is a “quick format” that re-initializes the file table, thereby making the existing files inaccessible. Format the drive for this target by performing the following steps:

- Turn on the tester.
- Open NI Measurement & Automation Explorer (MAX) on the internal PXIe controller.
- Right click the SbRIO-9651 in MAX and click on “Format Drive”

Note: sbRIO-9651 is visible in MAX under remote systems if CompactRIO is installed. If CompactRIO is not installed, user will need to manually add via IP Address (172.22.11.2).

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.