

Board Assembly Part Number(s)

Part Number	Description
183087M-01L	SCXI-1102 32 ch Thermocouple Amplifier
183087K-02L	SCXI-1102B 32 ch Amplifier, 200 Hz Bandwidth
183087K-03L	SCXI-1102C 32 ch Amplifier, 10 kHz Bandwidth
183087K-04L	SCXI-1104 32-Channel 42-Volt Multiplexer, 2 Hz Bandwidth
183087K-05L	SCXI-1104C 32 ch, 42 V Multiplexer, 10 kHz Bandwidth

Manufacturer: National Instruments

Volatile Memory

Type ¹	Size	User Accessible/ System Accessible ²	Battery Backup?	Purpose	Method of Clearing ³
Register	32 bits	Yes/Yes	No	Gain selection	Cycle power
Register	12 bits	Yes/Yes	No	Channel Configuration/Selection	Cycle power

Non-Volatile Memory

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
EEPROM	16 KB	Yes/Yes	No	Calibration Data	None available to user
FPGA	547 Logic Cells	Yes/Yes	No	Control & Module ID	None available to user

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):

- Hardware changes or a unique software tool from National Instruments are required to modify contents of the memory listed.
- 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.

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.