

Board Assembly Part Number(s)

Part Number	Description
156210B-01L or later	cDAQ-9132 16GB, RT
156210B-02L or later	cDAQ-9132 16GB, WES7
156210B-11L or later	cDAQ-9134 32GB, RT
156210B-12L or later	cDAQ-9134 32GB, WES7

Manufacturer: National Instruments

Volatile Memory

<u>Typeⁱ</u>	Size	User Accessible/ System Accessible ⁱⁱ	Battery Backup?	Purpose	Method of Clearing ⁱⁱⁱ	
(cDAQ-9132/91 DDR3L-SDRAM		Yes/Yes	No	System Memory	Cycle Power	
SoC RTC RAM	242 bytes	Yes/Yes	Yes	Battery Backed portion of RTC	Clear CMOS Button	
CPLD SDRAM	51 Mb	No/Yes	No	CPLD Memory	Cycle Power	
<i>Controller</i>	54 kB	Yes/Yes	No A	cquisition and Generation Data	Cycle Power	
SRAM Controller SRAM	49 kB	No/Yes	No	Configuration & Control	Cycle Power	
(cDAQ-9134) XNET SDRAM	512 Mb	Yes/No	No	Memory	Cycle Power	
Non-Volatile Memory						
<u>Type</u>	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing	
(cDAQ-9132 R T Flash -Firmware	Г) 16 GB	No/No	No	Firmware	None available to user	

-Firmware	No/No	No	Firmware	None available to user
- <i>OS</i>	No/Yes	No	Operating System	Format drive in MAX
-User Disk	Yes/Yes	No	User Data	Format drive in MAX
(cDAQ-9132 Window	ws)			
Flash 16	GB Yes/Yes	No	Operating System	Format drive
(cDAQ-9134 RT)				
Flash 32 (GB			
-Firmware	No/No	No	Firmware	None available to user
-OS	No/Yes	No	Operating System	Format drive in MAX
-User Disk	Yes/Yes	No	User Data	Format drive in MAX
(cDAQ-9134 Windov	ws)			
Flash 32	GB Yes/Yes	No	Operating System	Format drive
(cDAQ-9134)				
XNET Flash 32 1	Mb			
-Boot firmware	No/No	No	Firmware	None available to user
-User firmware	No/Yes	No	Firmware	None available to user



(cDAQ-9132/9134)

System BIOS	8MB	No/Yes	No	BIOS firmware	BIOS update utility
SPD EEPROM	256 bytes	No/Yes	No	Describes DDR3L memory	None available to user
CPLD	0.47 Mb	No/Yes	No	General Logic	None available to user
Ethernet Flash	8 Mb	No/Yes	No	Firmware	None available to user
Controller Flash	8 Mb	No/Yes	No	Firmware	None available to user

Media Storage

		User Accessible/	Battery		
Туре	Size	System Accessible	Backup?	Purpose	Method of Clearing

NONE

Clearing Notes:

SoC RTC Ram: The Clear CMOS Button is located between slots 2 and 3. See the User Manual for more information on the Clear CMOS Button.

BIOS Firmware: You may use the appropriate version of the BIOS Update Utility to restore your BIOS to its original factory version.



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.

Items are designated **No** for the following reason(s):

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. ii

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.

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