

Board Assembly Part Number(s)

Part Number	Description
140001A-03L or later	MODULE ASSY,CDA-2990,8 CHANNEL CLOCK DISTRIBUTION SYSTEM
140001A-04L or later	MODULEASSY,CDA-2990,8 CHANNEL CLOCK DISTRIBUTION SYSTEM WITH INTEGRATED GPSDO

Manufacturer: National Instruments

Volatile Memory

Type ¹	Size	User Accessible/ System Accessible ²	Battery Backup?	Purpose	Method of Clearing ³
SRAM	4kB	No/Yes	No	Network configuration?	Cycle Power
-04 with GPSDO only:					
EEPROM	2 kB	Yes/Yes	No	Parameter/location storage	Send "syst:factoryreset once" to the GPSDO

Non-Volatile Memory

Type	Size	User Accessible/ System Accessible	Battery Backup?	Purpose	Method of Clearing
EEPROM	4 kB	No/No	No	Device identification	ATMEL Studio
Flash	128 kB	No/Yes	No	Firmware?	ATMEL Studio
-04 with GPSDO only:					
Processor	2 kB	No/Yes	No	Factory default values	None available to user
Flash	512 kB	No/Yes	No	Executable program memory	Via jumper to GPSDO

Media Storage

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

Clearing Notes:

1. ATMEL Studio is free software provided by the chip manufacturer.
2. Using the "syst:factoryreset once" command will reset the GPSDO EEPROM to factory-default settings and also delete the factory calibration data.

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.

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.