



# How to Load / Store using a Compact Flash Card

- 1. Make sure the Compact Flash is in the PLC.
- 2. Go <u>Online</u> with the PLC and turn the <u>key to PROG</u> position.

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	- <b>BBB</b> E VI
No Forces	Path: AB_ETHIP-1\192.168.1.11\Backplane\0*
No Edits	AFI ONS TON CTU RES EQU MOV COF
Controller CPM Controller Tags Controller Fault Handler Power-Up Handler Tasks ToO_MainTask Unscheduled Programs / Phases Motion Groups Add-On Instructions Controller Tags Ready	
Reduy	

3. Now we are ready to store our controller program and firmware to the CompactFlash card. To update firmware of the devices in the I/O tree, Firmware Supervisor must be enabled in the program and card must store the applicable firmware.

To write an image to the card, we must be <u>ONLINE</u> and in <u>PROGRAM</u> mode with the controller (turn PLC keyswitch to PROG position)

Click the Controller Properties button

4. Select the *Nonvolatile Memory* tab.



5. Your CompactFlash card may or may not have a project stored. We will be writing over any existing image on the card.

Make sure the **"Inhibit Automatic Firmware Update" is unchecked** so the controller will automatically update firmware of the peripheral devices without any user intervention:

Controller Properties - UL
General Serial Port System Protocol User Protocol Major Faults Minor Faults Date/Time Advanced SFC Execution File Nonvolatile Memory Memory
Intege in Nonvolatile Memory Nate: Typi Revision: Load mage: Load Mode: Image Note: Stored:
Inhibit Automatic Firmware Update
Cancel Apply Help

6. Click the *Load / Store* button.



7. In the window below, the left-hand side shows the project stored in the CompactFlash card, and the right-hand side is user settings to configure the CompactFlash card: load setting for controller project and automatic firmware update (Firmware Supervisor) setting:

COMPACT FLASH: Project currently stored on Compact Flash w/ settings	COMPACT LOGIX PLC: Project currently on the Compact Logix PLC w/ user selected settings: Load Image Load Mode Automatic Firmware Update
Image in Nonvolatile Memory         Name:       CPM         Type:       1769-L32E CompactLogix5332E Controller         Revision:       16.21         Load Image:       On Corrupt Memory         Load Mode:       Run (Remote Only)         Image Note:       Image	Controller Name: CPM Type: 1769-L32E /A CompactLogix5332E Controller Revision: 16.21 Load Image: On Corrupt Memory Load Mode: Run (Remote Only) Image Note:
Automatic Firmware Update: Enabled Stored: 3/6/2009 9:45:47 AM Load>	Automatic Firmware Update: Enable and Store Files to Image
	Close Help



- 8. You can configure when the controller project should be loaded from the CompactFlash card and what state should the controller be once the project is loaded. Refer to the FYI below for explanations on the dropdown selections. Match the following selections:
  - Load Image: On Corrupt Memory
  - Load Mode: Run (Remote Only)
  - Image Note: 'Service Training'

## **Controller Section Explanation**

#### Load Image

The condition under which the image stored in nonvolatile memory is loaded back to controller memory. Available conditions include the following:

- On Corrupt Memory – this causes a load whenever there is no project in the controller and you turn on or cycle power on the chassis. If you are using a battery the controller, selecting this option performs a load only if the battery has failed to maintain the project during a loss of power.

- On Power Up – this causes a load whenever you turn on or cycle power on the chassis. If you are using a battery on the controller, selecting this option performs a load, even if the battery has maintained the project during loss of power.

- User Initiated – choose this option if you want to load only through RSLogix 5000 software.

#### Load Mode

The mode the controller enters upon loading from nonvolatile memory:

**Program** (Remote Only) or **Run** (Remote Only)

#### Image Note

Descriptive information that you entered at the time the image was stored in nonvolatile memory. You may enter up to 128 text characters.



9. Lastly, click Store to write the image from the Controller (PLC) to the CompactFlash card.

lonvolatile Memory Load / Store 🗙				
Image in Nonvolat Name: Type: Revision: Load Image: Load Mode: Image Note:	ile Memory CPM 1769-L32E CompactLogix5332E Controller 16.21 On Corrupt Memory Run (Remote Only)	1	Controller Name: Type: Revision: Load Image: Load Mode: Image Note:	CPM 1769-L32E /A CompactLogix5332E Controller 16.21 On Corrupt Memory
Automatic Firmware Update:	Enabled		Automatic Firmware Update:	Enable and Store Files to Image
Stored: 3/6/2009	9:45:47 AM Load>		< Store	Close Help

# For Store image to Compact Flash,

Click Yes to proceed with the Store:

RSLogi	RSLogix 5000				
⚠	Consider the following before proceeding with the Store:				
⊥	All communications to this controller will be lost including this workstation and any communications bridged through this controller.				
Δ	Storing will temporarily close the connections to the I/O modules.				
1	Removal of the CompactFlash card during the Store may corrupt the stored image.				
	Continue with the Store? Yes No				





A	Automatic Firmware Update 🗙							
	The following module(s) will not be included in the Automatic firmware Update operation.							
	Module Name Parent Name : Module Address Module Type Explanation							
	L01_Output	Local:1	1769-0B8/A	Electronic Keying not set to Exact Match				
	L02_Input	Local:2	1769-IQ16/A	Electronic Keying not set to Exact Match				
	<b>1</b>				Þ			
			Continue with the Stor	e?				
	<u>Yes</u> <u>N</u> o							

10. A window showing firmware storage status appears. When it is complete, the following message appears, click *OK*.

RSLogix	5000
1	The Store operation is in progress and could take up to 3 minutes to complete. You will be unable to reconnect until the Store is complete.
	ОК

11. When completed, in RSLogix 5000, you will be kicked offline:

Offline		
No Forces		<b>T</b>
No Edits		
Redundancy	rá Tura	٥

You have created a CompactFlash card with an image of the controller firmware, program and compatible module firmware for your Logix system.



Click Load to write the image from the CompactFlash card to the Controller (PLC)

N	onvolatile Memo	ry Load / Store		×
	- Image in Nonvolati Name: Type: Revision: Load Image: Load Mode: Image Note:	le Memory CPM 1769-L32E CompactLogix5332E Controller 16.21 On Corrupt Memory Run (Remote Only)	Controller Name: Type: Revision: Load Image: Load Mode: Image Note:	CPM 1769-L32E /A CompactLogix5332E Controller 16.21 On Corrupt Memory
	Automatic Firmware Update:	Enabled	Automatic Firmware Update:	Enable and Store Files to Image
	Stored: 3/6/2009	9:45:47 AM Load>	< Store	
				Close Help

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1	All communications to this controller will be lost including this workstation and any communications bridged through this controller.			
⊥	Removal of the CompactFlash card during the Load may corrupt the image being loaded.			
	Continue with the Load?			
	(Yes No			

When completed, in RSLogix 5000, you will be kicked offline:

Offline	0. RUN	
No Forces		The second se
No Edits		
Redundancy	rá – "o	٥

You have loaded an image from a CompactFlash card to the controller with firmware, program and compatible module firmware for your Logix system.

