

Procedure How to Setup a Brand New (out of the box) Compact Logix PLC

Setting IP Address of the Compact Logix PLC

(Sheet 2 - 5)

Update Firmware of the Compact Logix PLC

(Sheet 6 - 11)



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Procedure to Setup IP Address on a new (out of the box) Compact Logix PLC

- 1. Right click on My Computer Icon \rightarrow select 'Manage'
- 2. Select Services and Application \rightarrow Services
- 3. Search for RSLinx Enterprise and Stop RSLinx Enterprise if running

📕 Computer Management							- 🗆 ×
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Computer Management (Local)	Services						
Event Viewer	RSLinx Enterprise	Name \(\no\)	Description	Status	Startup Type	Log On As	•
T I Local Users and Groups		ScsiAccess		Started	Automatic	Local System	
Performance Logs and Alerts	Stop the service	S7 Global Services	S7 Global S		Disabled	Local System	
📕 Device Manager	Restarcine service	RSLinx Enterprise		Started	Automatic	Local System	
🖻 🎥 Storage		RSLinx Classic		Started	Manual	Local System	
🗉 🔐 Removable Storage		Routing and Remote Access	Offers rout		Disabled	Local System	
Disk Defragmenter		Rockwell Tag Server			Manual	Local System	
Disk Management		Rockwell Redundancy Services	Rockwell R	Started	Automatic	Local System	
E Services and Applications		Rockwell Namespace Services	Rockwell N	Started	Automatic	Local System	
Services		Rockwell HMI Framework	Provides fr	Started	Automatic	Local System	
- MMI Control		Rockwell HMI Diagnostics		Started	Automatic	Local System	
🕀 🎦 Indexing Service		Rockwell HMI Alarm Logger	Provides al		Manual	Local System	
		Rockwell HMI Activity Logger	Provides p		Manual	Local System	
		Rockwell Event Server	Rockwell E	Started	Manual	Local System	
		Rockwell Event Multiplexer	Rockwell E	Started	Manual	Local System	
		Rockwell Directory Server	Rockwell Di	Started	Automatic	Local System	
		Rockwell Directory Multipleyer	Rockwell Di	Started	Manual	Local System	<u> </u>
<u>↓</u>	Extended Standard						

- 4. Connect Serial Cable (1747-CP3) to Computer & PLC Channel 0
- 5. Make sure PLC is powered and the key switch is in PROG position
- 6. Go to Start \rightarrow Programs \rightarrow Rockwell Software \rightarrow RSLinx \rightarrow RSLinx Classic
- 7. Select Communications \rightarrow Configure Drivers
- 8. Select **RS-232 DF1 devices** from the pull-down list and press 'Add New' create RS-232 DF1 devices driver if not already defined
- 9. Press 'Configure' then 'Auto-Configure' button. Confirm for "Auto Configuration Successful!"





10. Open RSWho (Communications \rightarrow RSWho) or press icon

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- 11. Expand folder by press + until display the PLC Ethernet Port
- 12. Right click on PLC Ethernet Port \rightarrow Module Configuration

🗞 RSLinx Classic Gateway - RSWho - 1			- 0
File Edit View Communications Station DDE/OPC Security Window Help			
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Autobrowse Refresh			
Image: Second Secon			
For Help, press F1	NUM	02/22/08	03:00 PM

- 13. Select Port Configuration tab & Static
- 14. Enter the PLC IP Address (192.168.1.xxx)
- 15. Enter the Network Mask (255.255.255.0)
- 16. Press 'Apply' then 'OK'

National Classic Gateway - RSWho - 1 Fle Edit View Communications Station DDE/OPC Security Window Help 에 모르 프리아이지 아이지 아이지 아이지 아이지 아이지 아이지 아이지 아이지 아이지	
高」 個 化 K* 高 RSWho - 1	1769-L32E Configuration X X General Pot Configuration Network Configuration Type
	Cuttors □<
]	Current Duplex: -lief duplex (Changes to Port Speed and Duplex require module reset.) Status: Network Interface not Configured OK Cancel Apply Help



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17. Select 'Yes' then 'OK'.



18. Create Ethernet driver in RSLinx.

Available Driver Types: Ethernet devices	Add New	<u>C</u> lose Help
His 242 UF 1 devices Ethernet/Revices Ethernet/Revices Ethernet/Revices 1784-K17K10/FKTX(D)/PCMK for DH+/DH-485 devices 1784-K17K10/FKTX(D)/FKTX(D)/PCMK for DH+/DH-485 devices 1784-PCIS10 for ControlNet devices S-S 5D/SD2 for DH+ devices Virtual Backplane (SoftLogueSdox) DeviceNet Drivers SLC 500 (DH485) Emulator driver SLC 500 (DH485) Em	Status Running Running Running Running	Configure Startup Start Stop Delete

- 19. Press 'Configure' button.
 - a. Set Station 0 to Computer IP Address.
 - b. Set Station 1 to PLC IP Address. (you can enter as many PLC IP address as you needed)
 - c. Press 'Apply' then 'OK' when completed.





Add New
Delete

- 20. Using RSWho, browse to the PLC using Ethernet driver.
 - a. Make sure the Computer TCP/IP is setup to 192.168.1.xxx
 - b. Make sure Ethernet Cable connected between the Computer and the PLC
 - c. Test your connection by Ping PLC IP address
 - i. Start \rightarrow Run \rightarrow cmd
 - ii. Type 'Ping 192.168.1.xxx'
 - iii. Wait for a reply message from PLC IP Address
 - iv. Type 'Exit" or press 'X' to close.









21. Remove the Serial Cable (1747-CP3) from PLC.





Procedure to Update Firmware on a brand new Compact Logix PLC

1. Run Control Flash (Start → Programs → FLASH Programming Tools → ControlFLASH)







- 2. Press 'Next'.
- 3. Select PLC Catalog number from list then press 'Next'.

1769-I 32E	
1756HYD02 1756HYD02 1756MQ2AS 1768L43 1768L45 1768L43 1769L32 1769L32 1769L32E 1769L32E 1769L32E 1769L35CR 1784-PM16SE 1794L34 DriveLogis5730	
	1769-L32E 1769HVD02 1756HVD02 1758H02AS 1768-L43 1768-L43 1769-L31 1769-L31 1769-L32C 1769-L32C 1769-L32C 1769-L32C 1769-L32E 1769-L32E 1769-L32E 1769-L32E 1769-L32E 1769-L32 17

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4. Browse to the CompactLogix Processor by expand '+' from list then press 'OK'.

Select the 1769-L32E device to update and click OK	×
Select the 1769-L32E device to update and click OK Autobrowse Refresh Solution (XP2470) Autobrowse Workstation, XP2470 Autobrowse Refresh Solution (XP2470) Refre	×
OK Cancel	

Display current Processor Information (S/N and Firmware Revision)



Firmware Revision Catalog Number: 1769-L32E Serial Number: 004D6B16 Current Revision: 1.15.1 Control Select the new revision for this update Revision 16.20.8 Restricti... Show All Update Firmware + 4 **Revision Number** Current Folder c:\program files\controlflash ... < Back <u>N</u>ext > Cancel Help

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5. Press 'Next'.

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Display Summary of Processor Information (S/N and Firmware Revision)

Summary PANGER: The target module is about to be update with new firmware. During the update the module will be unable to perform its normal control function. Please make sure that all processes affected by this equipment have been suspended and that all safety critical functions are not affected. To about this firmware update, press Cancel now. To begin the update now, press Ninsh. Catalog Number: 1769 L32E Serial Number: 044D6B16 Current Revision: 1.15.1 New Revision: 16.20.8 More Info.
< Back Finish Cancel Help

6. Press 'Finish'.



7. Press 'Yes'. This firmware update process will take approx. 3-5 minutes. Wait until Update complete before operating your computer or powered down/disconnect cable to the Processor.







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8. Press 'Cancel' to exit. Firmware update completed.



Follow the above procedure for the 1769-L35E or 1769-L43 Processor

Example screen print for 1769-L43 Processor

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RSWho - 1 Adobrowse Patron Patron Patron Mortstation, XP2470 Patron Patron Patron Patron Patron Patron Patron Patron	A Biowing CGIX5343 Remove Driver Diagnostics Configure Driver Security Device Properties Module Statistics Reddle Configuration	Reference to the second	

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Procedure to Setup IP Address on a new Compact Logix PLC





👬 RSWho - 1	×⊔-
	A Ethernet
	1768-ENBT Configuration X
	C Use DHCP to obtain network configuration.
	Use BODTP to obtain network configuration. IP Address: 192 . 168 . 100 . 102 Network Mask: Dase dase dase dase
	Gateway Address: 0 . 0 . 0 . 0
	Primary Name 0 <t< th=""></t<>
	Domain Name:
	Host Name:





Example screen print for 1769-L43 Processor

Procedure to Update Firmware on a new Compact Logix PLC



🏽 Start 🛄 RSLogiz Emulate50... 🏦 RSLogiz 500 - 24_C... 📓 RSLogiz 500 - C/_... 📓 ControlFLASH - Un... 🖄 Compact Logix Setu... 🕷 Compact Logix Setu...









Example screen print for 1769-L43 Processor

Procedure to Update Firmware on a new Compact Logix PLC

Summary	DANGER: The target module is about to be update with new firmware. During the update the module will be unable to perform its normal control function. Please make sure that all processes affected by this equipment have been suspended and that all sefery critical functions are not affected. To about this firmware update, press Cancel now. To begin the update now, press Finish. Catalog Number: 1768-L43 Serial Number: 004A5B94 Current Revision: 1.2.3 New Revision: 16.20.8	
	< Back Finish Cancel Help	



Update Status	×	·
Catalog Number: 1768- Serial Number: 004A5	L43 OK	
Current Revision: 16.20. New Revision: 16.20.	.8View Log	
Status: Update comple firmware update device in its inte	te. Please verify this new e before using the target ended application.	