

## **Procedure How to Setup Computer**

## (Sheet 5 - 7) **Configuration RSLinx w/ Ethernet** RS-232 DF1 Comm. DESCRIPTION OF THE PROPERTY OF 1769-L32E / L35E 1 w/ Built in EtherNet/IP & RS-232 ports EtherNet/IP **Software Requirement:** - RSLogix 5000 - RSLinx Classic - FactoryTalk View

- Ethernet Cables
- Switch (if necessary)
- Software
  - Configure IP Address for Computer

- RSLinx Enterprise

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Configuration RSLinx w/ RS-232 DF1

Setting Laptop Computer to the Correct TCP/IP Address

- Configure IP Address for PLC
- Configure IP Address for PV+
- Verify Communication Connections





(Sheet 4)

(Sheet 2 - 3)





### **Laptop Computer**

# Setting Laptop Computer to the Correct TCP/IP Address (Transmission Control Protocol/Internet Protocol)

- 1. From Start Menu, browse to settings and select "Network Connections"
  - > Start → Settings → Control Panel → Network Connections

S Network Connections	s 📃 🗖	$\mathbf{X}$
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorite	tes Iools Advanced Help	1
🕞 Back 🝷 🕥 - 💋	Search         Folders         IIII •	
Address 🔇 Network Connec	ctions 💌 🔁 🤇	50
Network Tasks Create a new connection Change Windows Firewall settings	Dial-up     Dial-up     MM - CTI     Disconnected     Conexant D110 MDC V.9x Mo     LoN or High-Speed Internet	
See Also	<ul> <li>Local Area Connection Connected Broadcom NetXtreme 57: Gig</li> <li>Wireless Network Connection Not connected Intel(R) PRO/Wireless 2200BG</li> </ul>	

2. Right click on Local Area Connection and select "Properties". Select "Internet Protocol (TCP/IP)" and Choose Properties.

🕂 Local Area Connection Properties 🛛 💽 🔀	
General Authentication Advanced	
Connect using:	
Broadcom NetXtreme 57xx Gigabit C	
This connection uses the following items:	
<ul> <li>✓ T SIMATIC Industrial Ethernet (ISO)</li> <li>✓ T AEGIS Protocol (IEEE 802.1x) v3.1.0.1</li> </ul>	
Internet Protocol (TCP/IP)	
Install Uninstall Properties	
Description	
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.	
<ul> <li>Show icon in notification area when connected</li> <li>Notify me when this connection has limited or no connectivity</li> </ul>	
OK Cancel	



3. Check the "**Use the following IP address**" and enter the correct IP address, Subnet mask, Default gateway of the unit then choose "Ok".

Internet Protocci (TCP/IP) Properties			
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
C <u>b</u> btain an IP address automatically			
Use the following IP address:			
192.168.1.71			
Subnet mask: 255 . 255 . 0			
Default gateway:			
C Obtain DNS server address automatically			
Use the following DNS server addresses:			
Preferred DNS server:			
Alternate DNS server:			
Ad <u>v</u> anced			
OK Cancel			

4. Press "Closed" to closed windows.

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To double check your computer

- Go to **Start**  $\rightarrow$  **Run** 
  - Type "**cmd**" and Press Enter
- In Command Prompt:
  - Type "**ipconfig /all**" and Press Enter
  - Should see the entered IP Address once Windows has completed





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#### Configuration RSLinx w/ RS-232 DF1

- 1. Connect Serial Cable (1747-CP3) to Computer & PLC Channel 0
- 2. Go to Start  $\rightarrow$  Programs  $\rightarrow$  Rockwell Software  $\rightarrow$  RSLinx  $\rightarrow$  RSLinx Classic
- 3. Select Communications  $\rightarrow$  Configure Drivers
- 4. Select **RS-232 DF1 devices** from the pull-down list and press 'Add New' create RS-232 DF1 devices driver if not already defined
- 5. Press 'Configure' then 'Auto-Configure' button. Confirm for "Auto Configuration Successful!"

🗞 RSLinx Classic Gateway		
File Edit View Communications Station DDE/OPC Securit		
물 윪 \$ RSWho		
Configure Drivers Configure Shortcuts Configure Client Applications		Configure R5-232 DF1 Devices Device Name: AB_DF1-1
Configure Drivers	? ×	Comm Port: CDM1   Device: Logix 5550 / CompactLogix
Available Driver Types: 1784-U2DHP for DH+ devices RS-232 DF1 devices C Ethernet devices EtherNet/IP Driver 1784-KT/KTX(D)/PKTX(D)/PCMK for DH+/DH-485 devices	Add New Close Help Status	Baud Rate: 15200   Station Number: 00 (Decimal)  Pathy: None  Enro Checking: BCC  Stop Bits: 1  Protocol: Full Duplex: Auto Configuration Successful
1784-KTC(K) for ControlNet devices DF1 Polling Master Driver 1784-PCC for ControlNet devices 1784-PCIC(S) for ControlNet devices 1747-PIC / AIC+ Driver DF1 Slave Driver S-S SD/SD2 for DH+ devices DH485 UIC devices Virtual Backplane (Soft) opix58vv_USB)	Running Running Running Running Running Startup Start Stop	Use Modern Dieler Configue Dieler

- 6. Press "OK" to close the Configures RS-232 DF1 Devices window
- 7. Select Communications  $\rightarrow$  RSWho
- 8. Expand folder AB\_DF1-1, DF1 by press + until display the PLC





### **Configuration RSLinx w/ Ethernet devices**

- 1. Connect Ethernet Cable to Computer & Ethernet port on the PLC
- 2. Go to Start  $\rightarrow$  Programs  $\rightarrow$  Rockwell Software  $\rightarrow$  RSLinx  $\rightarrow$  RSLinx Classic
- 3. Start **RSLinx**
- 4. Select Communications  $\rightarrow$  Configure Drivers
- 5. Select Ethernet devices from the pull-down list and press 'Add New'

Configure Drivers		?×
Configure Drivers         Available Driver Types:         Ethernet devices       ▼         RS-232 DF1 devices       ▼         Ethernet devices       ▼         C Ethernet/IP Driver       1784-KT/KTX(D)/PKTX(D)/PCMK for DH+/DH-485 devices         1784-KTC(X) for ControlNet devices       DF1 Polling Master Driver         1784-PCC for ControlNet devices       1784-PCIC(S) for ControlNet devices         1784-PCIC(S) for ControlNet devices       1747-PIC / AIC+ Driver         DF1 Slave Driver       S-S SD/SD2 for DH+ devices         Virtual Backplane (SoftLogix58xx)       DeviceNet Drivers (1784-PCD/PCIDS,1770-KFD,SDNPT drivers)         PLC-5 (DH+) Emulator driver       SLC 500 (DH485) Emulator driver         SLC 500 (DH485) Emulator driver       Scd babase	Add New	Configure Startup Start Stop
Remote Devices via Linx Gateway		<u>D</u> elete

#### 6. Press 'OK'

Add New RSLinx Classic Driver	
Choose a name for the new driver. (15 characters maximum)	OK
AB_ETH-1	Cancel



7. Press 'Add New' and type in ALL PLC and PV Plus IP Address that you want to connect.

Con	figure dri	ver: AB_ETH-1			? ×
Sta	ation Mappin	פו			
	-				
	Station	Host Name			Add <u>N</u> ew
	0	192.168.1.101			Delete
	1	192.168.1.71		_	Delete
	2	192.168.1.102			
	3				
	63	Driver			
		ОК	Cancel	<u>A</u> pply	Help
		OK	Cancel	Apply	Help

- 8. Press 'OK' when complete.
- 9. Check for 'Running' status.

nfigure Drivers		?
-Available Driver Types:		Close
Ethernet devices	✓ <u>A</u> dd New	Hala
		<u>T</u> eih
Configured Drivers:		
Name and Description	Status	
AB_DF1-1 DH485 Sta: 0 COM1: RUNNING	Running	Configure
AB_ETH-1 A-B Ethernet RUNNING	Running	
EMU500-1 SLC 500 (DH485) Emulator Sta:00	Running	Startup
		<u>S</u> tart
		Stop
		<u>D</u> elete



10. Open 'RSWho' and check for connection.

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