ANC-100e and ANC-120e Ethernet and USB to DH+ Converter



RSLinx Enterprise/FactoryTalk Linx with ANC-100e using HMI feature on a Data Highway Plus network

This document provides information to set up RSLinx Enterprise running in a computer connected via Ethernet Network with an ANC-100e to communicate with a SLC5/04 or PLC5 processor on a Data Highway Plus Network using the HMI feature.

Note: Before proceeding, make sure

- ✓ ANC-120e Driver is installed (Only if using ANC-120e)
- ✓ Network Adapter is correctly configured to access ANC-120e or ANC-100e
- ✓ ANC-120e is connected to the computer and DH+ network or ANC-100e is connected to the same Ethernet network or directly to your computer, and to the DH+ network.

For this example:

ANC-100e IP address = 192.168.0.230 SLC5/04 DH+ node = 03

- 1. Turn ON the first row in the ANC-100e's "HMI" tab in the web interface
- Enter an IP address that is not being used (keep in mind that it has to be in the same network the ANC-100e is) and enter the DH+ node of the device that you are connecting to
- You can repeat steps 1 and 2 for each row to communicate with up to 5 DH+ devices if necessary, using a different IP address in each row Click "Apply" and wait for the unit to reboot (5 seconds)

Automation Networks



4. Open "FactoryTalk Administration Console" application



5. Right click in "Network (THIS COMPUTER)" and select "New Application "

🐺 FactoryTalk Administration Conso	le
File View Tools Window Help	
Image: System Image: System <t< td=""><td>New Application Backup Restore Export Policies Security</td></t<>	New Application Backup Restore Export Policies Security

6. Enter a name for the project ("Test" for our example) and click "OK"

New Applicat	ion			×
Name:	Test			
Description:				
		ОК С	Cancel Help	

7. Right click on the application that you have created and select "Add New Server" -> "Rockwell Automation Device Server (RsLinx Enterprise)"



8. Name the RsLinx Enterprise Server and press "OK"

RSLinx Ente	erprise Server I	Properties		— ×
General	Redundancy	Alarms and Events		
Nam				
RSI	e inx Enterprise			
Desc	ription			
Comp	outer hosting the	e RSLinx Enterprise	server:	
NET NET	SUPPORT-PC			Browse
	_			
	ОК	Cancel	Apply	Help

- 9. Select "Communication Setup" from the tree on the left side of the screen.
- 10. And then Right Click on the "RsLinx Enterprise" server icon that we just created on the right side, and Select "Add Driver"



11. On the "Add Driver Selection" Window, select "Ethernet" and press "OK"

Ethernet	÷			
DH+ (1784-PK	TX, 2711P-RN(PKTX, 2711P-F	5, 2711P-RN8) (N6)		
Serial DH485 Remote I/O (1	including 2711F 784-PKTX, 271	P-RŃ3, 2711P-RN: 1P-RN6)	22C)	
Remote I/O (2 ControlNet (17	711P-RN1 - PV 84-PCIC(S), 271	Plus 400/600) I1P-RN15S)		
DeviceNet (17	84-PCIDS, 271 84-PCIDS, 271	1P-RN155, 2711F 1P-RN10H, 2711F	-RN15C) -RN10C)	

12. Enter a Name for the driver and press "OK"

Ethernet Properties	K
General Advanced Name Ethemet	
OK Cancel Apply Help	

13. Right Click on the Ethernet driver icon and select "Add Device".



- 14. In the "Add Device Selection" Window, select a suitable device for the one that you are connecting to
- 15. If it is a PLC5, select "Ethernet PLC" -> "PLC5 with Ethernet interface"
- 16. If it is a SLC5/04, select "Ethernet SLC devices" -> SLC 505
- 17. (In this document, we are connecting to a SLC5/04 with 16K, thus we selected "1747-L551E, SLC-5/05 Processor w/16K"
- 18. Then press "OK"

Add Device Selection				
Available Devices				
🕀 🚎 Ethernet PLC devices				
Ethernet SLC devices				
1747-L551E, SLC-5/05 Processor w/16K				
EtherNetIP Devices				
GenericDevice, Generic Device From EDS File				
MetENI-connected PCCC devices				
🗄 🔚 Prosoft AN-X2-AB-DHRIO Connected PCCC Devices				
EDS File: Browse				
OK Cancel Help				

- 19. Name the processor and enter the IP address that you used on the HMI tab of the ANC-100e to communicate with this PLC or SLC that you are configuring (in our case: *192.168.0.231*)
- 20. Then press "OK"

Device Properties	—X —
General	
Name SLC-5/05 Processor w/16K	
Address 192 . 168 . 0 . 231	
OK Cancel Apply He	elp

21. Now you should see the added device in the tree on the right side of the screen

*Note: In case you're having issues with the IP address assigned saying that the IP address is already being used or the device showing a yellow question mark or there is a warning sign or you are not allowed to add the device. Please first assign the IP address here in Device Properties and then add it to the HMI tab inside the web configuration of the ANC-100e/120e



- 22. If you used more than 1 row in the HMI tab of the ANC-100e, repeat steps 13 to 20 for each row
- 23. To test the connection of a device, you can use the following procedure.

- 24. Click on "Add" and enter a shortcut name
- 25. Then link it to the added processor by selecting the shortcut and then clicking on the processor. Then click on "*Apply*"



26. You should see a window showing the information of the shortcut, press "Yes"



27. Then Click the "*OK*" button on the bottom of the screen to save the shortcut and make it effective

offline Tag File		Browse
hortcut Type	Processor	-
		_
bath is currently	assigned to the selected shortcut.	
		🔥 OK Cancel Verify Help

28. Open Factory Talk Live Data Test Client



29. In the *"Initial Connection"* Window, select the project name that you created for this (in our example, we named it *"Test"*). Then Click *"OK*" to open it

Initial Connection	
Connect OPC Server C Factory Talk C Load Config File	OK Cancel Browse
OPC Server Machine Cocal C Remote NETSUPPORT-PC OPC Server Locale ID: 1033	

30. Create a default group and press "OK"

Create Group			
Name:	Group 1	ОК	
Update Rate:	250	Cancel	
Active:	v	Help	
Locale ID:	1033		

31. Then we get to a window where we can see that our shortcut named *"testsc"* is able to show the data from our processor

Add Item				— × —)
ItemID		Items to A	Add:	ок
Datatype Native	->			Cancel
Active				Advanced
	Add Bran	ich	Item Properties	Help
RNA://\$Global/Test				

32. Select a data word to add to the client (For instance "B3:0"), and click "OK" to add it

Add Item		—
ItemID ∷[testsc]B3:0 Datatype Native ▼ Active	Items to Add: ::[testsc]B3:0	OK Cancel Advanced
	Add Branch Item Properties	Help
─ RNA://\$Global/Test ⊡ testsc ─ Diagnostics ⊡ Online ─ A11 ─ B3 ─ B9	B3:0 B3:1 B3:10 B3:11 B3:12 B3:13 B3:14 B3:15 B3:16	

33. Now you should be able to see/monitor the value in the selected memory address of the processor

FactoryTalk Live Data Test Client - RNA://\$Global/Test				
File Group Data View H	elp			
Add Group Group 1	▼ I Active	Rate (mSec): 250	Remove Group	Item Properties
Item ID Curre	ent Value Current Q	uality Updates (/Sec	:) Run Avg.	
● ::[testsc]B3:0 -1	Good	1 (0)	0.114	