

# **User Manual**

## **Human machine interface DeviceNet Slave**

## GRAPHIC SYMBOLS



INFORMATION, it helps users with more details about the topic and failure to follow may lead to unpredictable results.



WARNING, Failure to follow may lead to minor injury or damage / malfunctioning of equipment



DANGER, Failure to follow may lead to injury or fatal accident to operating personal or damage/malfunctioning of equipment



CAUTION, Failure to follow may lead to malfunctioning of equipment, damage or repair



Protective Earth



DC Supply

## PREFACE

Original equipment manufacturer reserves the right to change information available in this document without notice. Original Equipment manufacturer is not liable for any damages incurred to equipment/personal during installation or use of equipment as explained in this document. User must acquire sufficient knowledge & skills prior to use the equipment in the application and follow all the local standards & regulations to meet safety requirements

DeviceNet® is registered trade mark of ODVA  
Anybus CC® is registered trade mark of HMS

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## 1. OVERVIEW

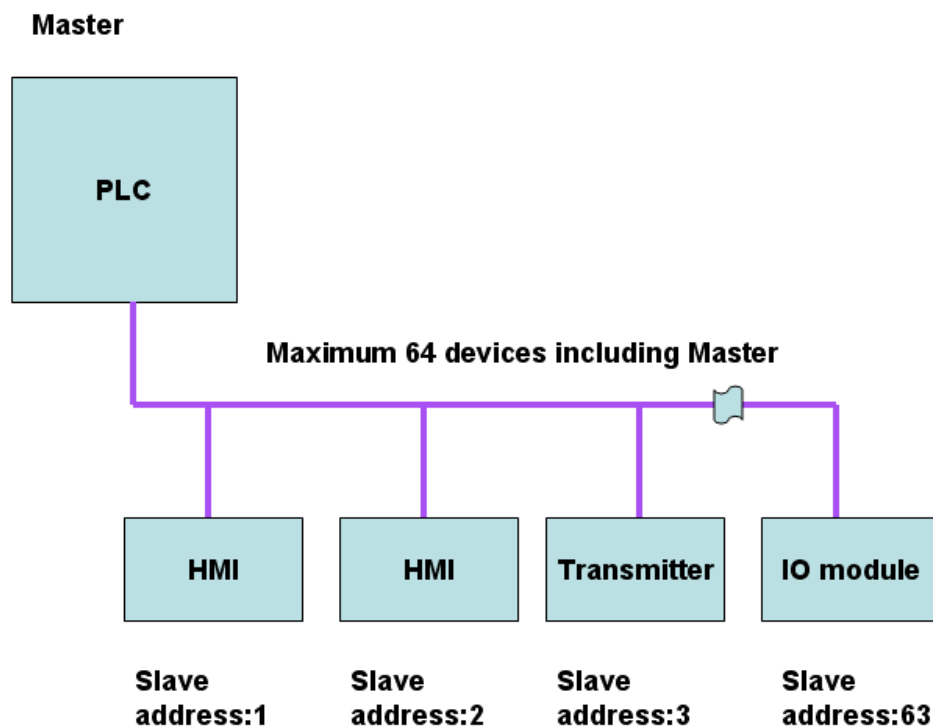
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### 1.1 Introduction

DeviceNet is a network system used in the automation industry to interconnect control devices for data exchange. It uses Controller Area Network as the backbone technology and defines an application layer to cover a range of device profiles. Typical applications include information exchange, I/O control networks etc.

Nodes are distributed along a DeviceNet network by the means of a Trunkline-dropline topology.

DeviceNet supports 125 kbit/s, 250 kbit/s and 500 kbit/s data rates. Depending on the chosen cable type, DeviceNet can support communication up to 500 meters (Round thick cable). Typical round cable supports up to 100 meters. While flat style cable supports up to 380 meters at 125 kbit/s and 75 meters at 500 kbit/s



**Fig: Typical configuration**

HMI supports DeviceNet communication via optional extension card.

Check HMI ordering code for Network extension card availability

EDS file will be supplied for the slave

## 1.2 Communication

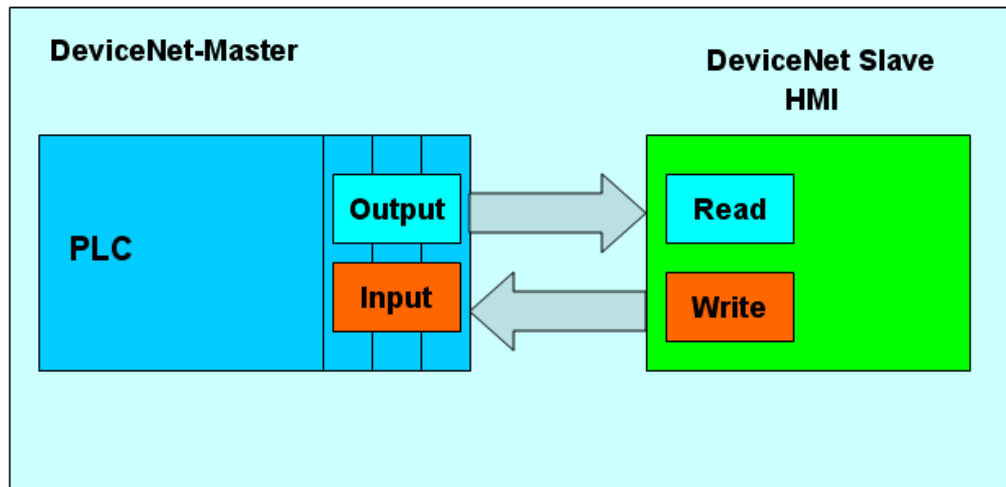


Fig: Data exchange between master and slave

## 2. SPECIFICATIONS

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Item	Description
COM port number in HMI	COM3 (for network option, extension card)
DeviceNet module extension card name	Anybus CC-DeviceNet
Master to Slave, maximum bytes	256
Slave to Master, maximum bytes	256
Total bytes	512
Supported baud rates	125, 250, 500 Kbps, auto detection also available
Address range	0 to 63
EDS file name	324-8172-EDS_ABCC_DEV_V_2_3

### 3. EXTENSION CARD INSTALLTION

COM3 is dedicated for extension card. It is clearly marked on rear side of HMI.

Check HMI ordering code for Network extension card availability

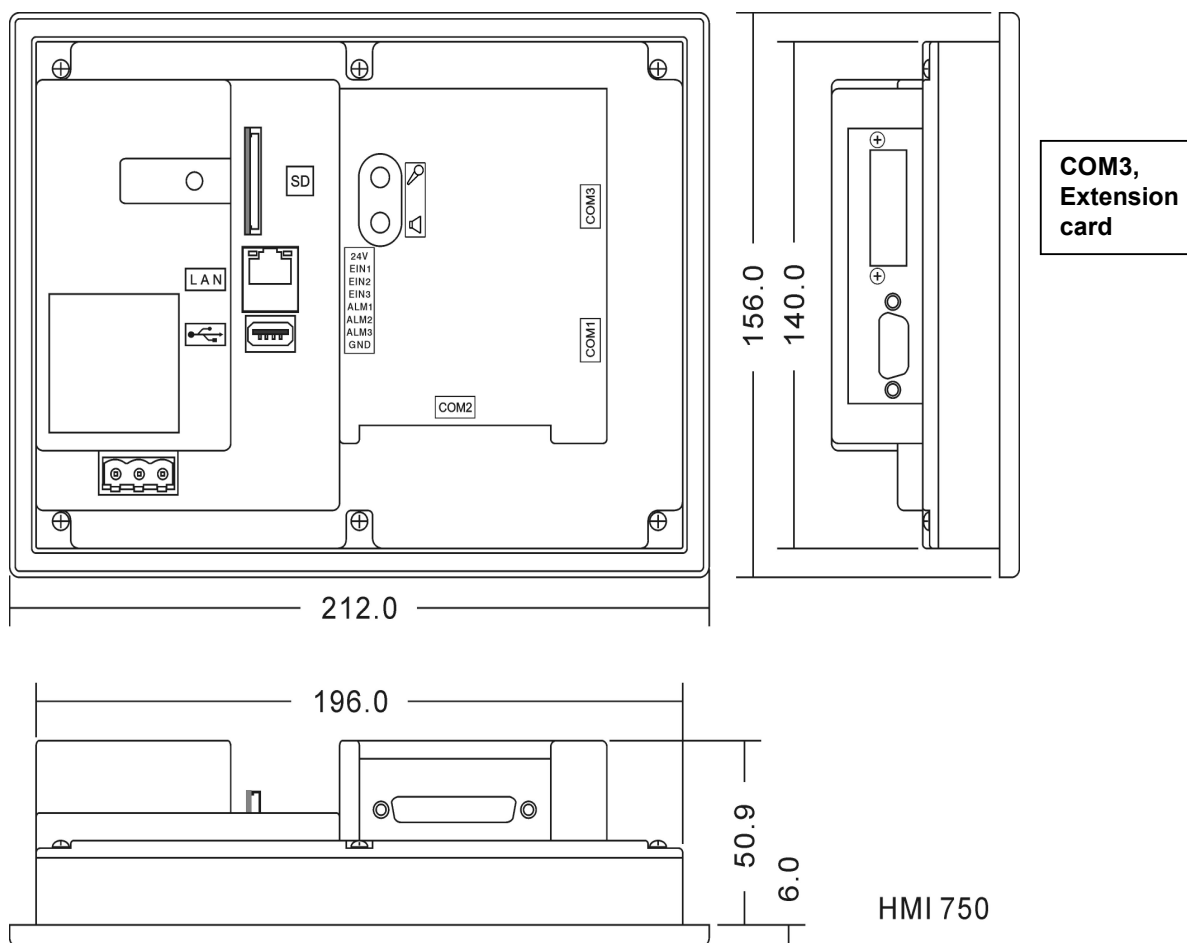


Fig: Typical dimensional drawing of HMI 7"

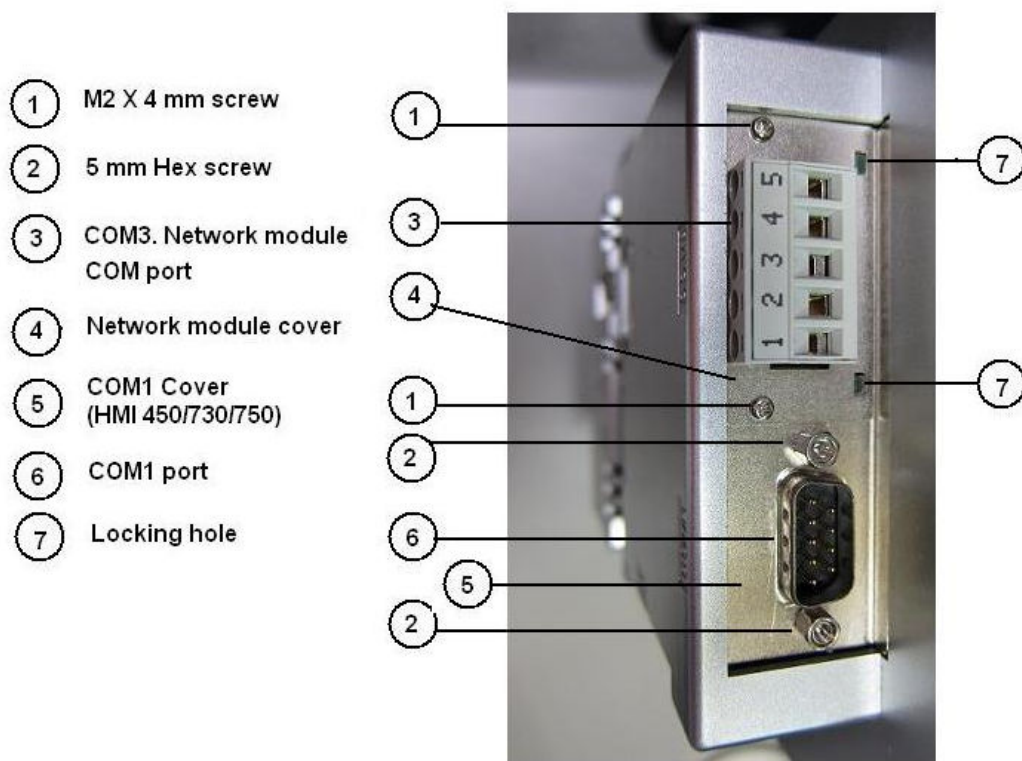


Fig: Typical HMI 7" with DeviceNet module



1. Open HMI rear cover by removing all the screws
2. Remove M2 X 4 mm screws (2 nos.) and open network module blank cover
3. Remove 5 mm hex screws (2 nos.) for COM1 port using tool 5mm Hex nut screwdriver
4. Remove COM1 cover. At this time, COM1 enclosure will be opened. Note down the direction of enclosure carefully as it need to fit in same direction later
5. Remove 5 mm hex screws for network extension card
6. Now, insert network extension card into main board and make sure it is properly inserted with in guider pins

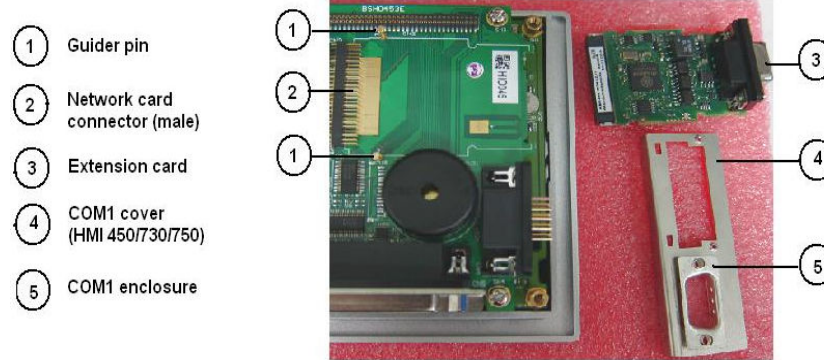


Fig: Extension card connector and guider

7. Fix COM1 cover properly and make sure that PCB is locked with in locking holes
8. Fix 5 mm hex screws (2 nos.) for COM1 port
9. Fix network module cover. Remember, these covers are different for different network extension modules. You will receive specific network module cover along with network extension card
10. Fix 5 mm hex screws (2 nos.) for network extension card. If required gently push network extension card downside to allow screws go inside properly
11. Fix M2 X 4 mm screws (2 nos.) on network module cover. If required gently push network extension card downside to allow screws go inside properly
12. Close the HMI rear cover



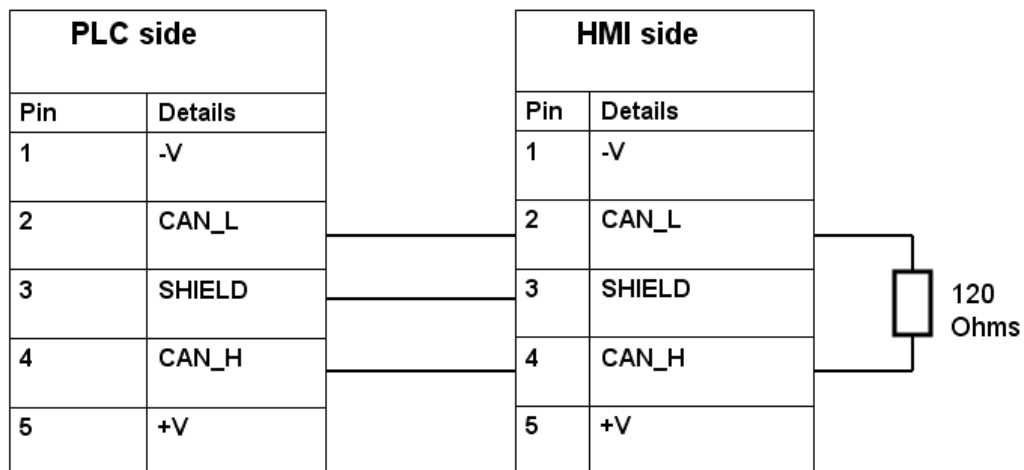
## 4. WIRING

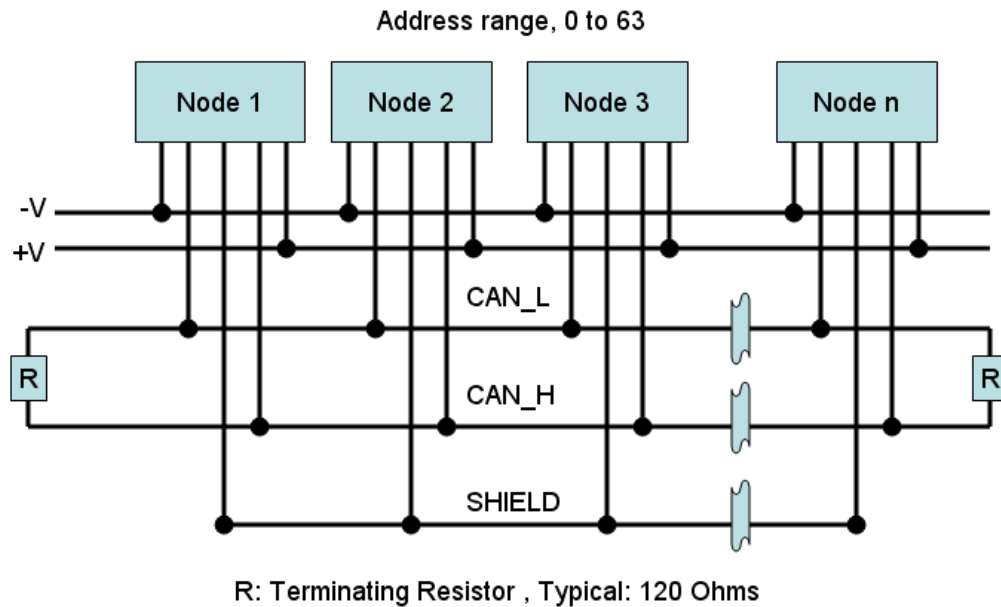
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DB9 male at extension card, pin details

Pin	Signal	Comments
1	V-	Negative bus supply voltage *
2	CAN_L	CAN Low bus line
3	SHIELD	Cable Shield
4	CAN_H	CAN High bus line
5	V+	Positive bus supply voltage *

\* Voltage acceptance = 11 to 25 V DC, power consumption: 36-38 mA





**Fig: DeviceNet network connection scheme**



Please make topology as per DeviceNet specifications

R = Terminating resistor, typical: 120 ohms

Maximum nodes, n = 64 (Address range 0 to 63)

Shielded twisted pair cable should be used for connecting CAN\_H and CAN\_L

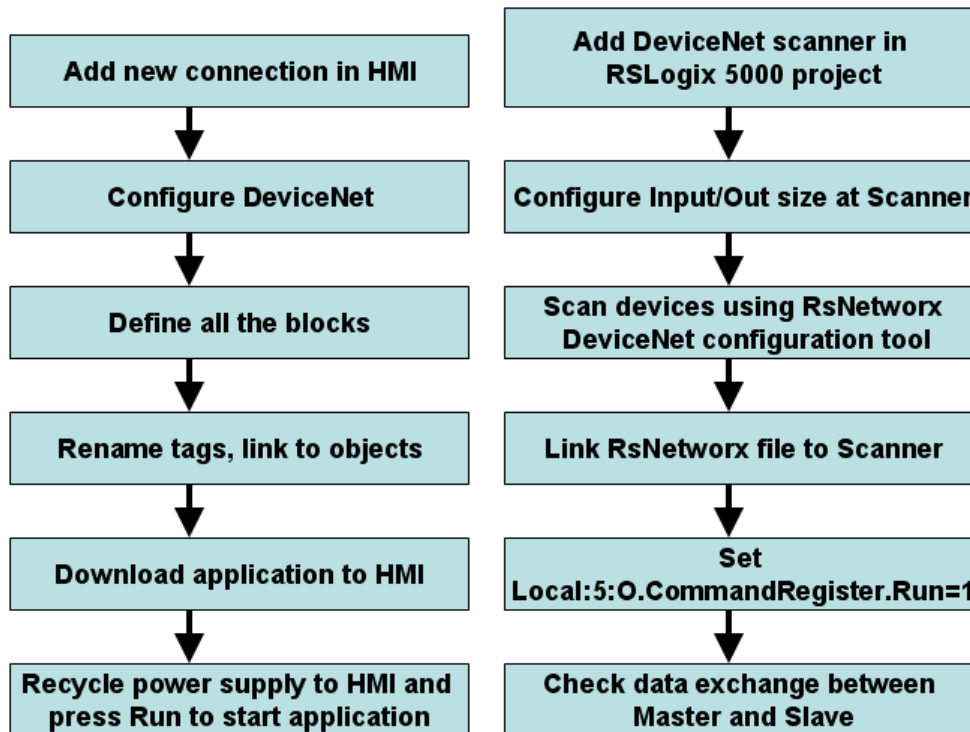
Termination resistor should be used at both first and last nodes in network

CAN\_H and CAN\_L are different bus levels, SHIELD is common reference

## 5. QUICK SETUP

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### Configuration sequence

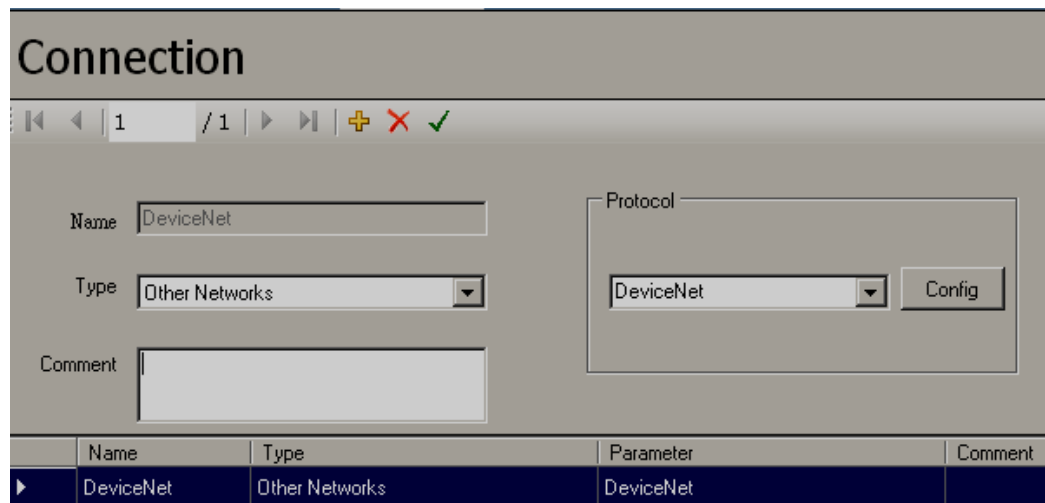


### Tips

1. First decide how much data to be exchanged between Master and Slave.
2. In HMI configuration, create required Read blocks (Maser to Slave) first, then, write blocks (Slave to Master).
3. Open Tag data base from Project explorer. It is possible to modify blocks to Tag names at Tag database here. Once block name is changed to Tag name, never attempt to delete the DeviceNet setup from connection as you will loose all the Tag names.
4. Link tags with Objects like Label, Text box etc... Once Tag is linked with objects, never attempt to delete DeviceNet configuration from Connections.
5. Make sure HMI (COM3) is connected to PLC on DeviceNet. Download application from PC to HMI
6. Switch OFF power supply to HMI. Press your finger on HMI active screen area and then switch ON the power. On Control center, press "Run".


## 6. HMI CONFIGURATION

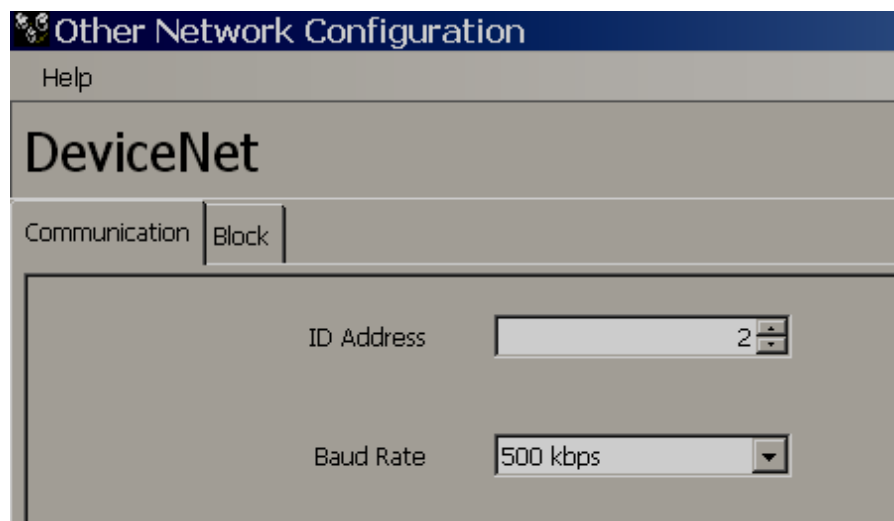
1. In project explorer, double click at “Connections”
2. Click  to add a new connection.
3. Select Type= Other Networks. Select Protocol = DeviceNet, then click apply icon  to save this setup



The 'Connection' dialog box shows the configuration for a new connection. The 'Name' field is set to 'DeviceNet'. The 'Type' dropdown is set to 'Other Networks'. The 'Protocol' dropdown is set to 'DeviceNet', and a 'Config' button is visible next to it. A 'Comment' text area is also present. At the bottom, a table lists the configured connection.

Name	Type	Parameter	Comment
DeviceNet	Other Networks	DeviceNet	

4. Click “Config”  to open DeviceNet slave configuration
5. Select Communication and enter settings



The 'Other Network Configuration' dialog box shows the 'DeviceNet' configuration. The 'Communication' tab is selected, and the 'Block' sub-tab is active. The 'ID Address' is set to 2, and the 'Baud Rate' is set to 500 kbps.

Parameter	Value
ID Address	2
Baud Rate	500 kbps

**Address:** Enter unique slave address in DeviceNet network.  
Address range: 0 to 63

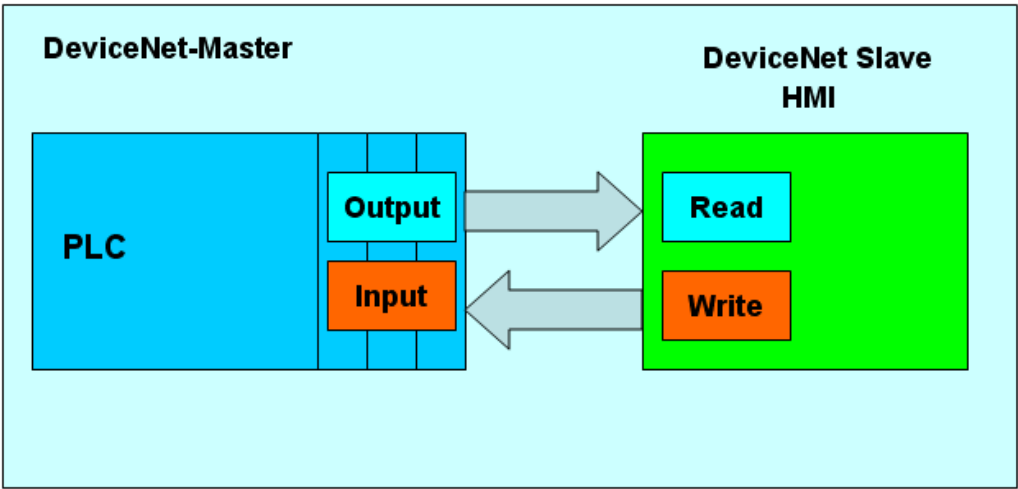
**Baud rate:** By default, 500 kbps. Others allowed are 125, 250 Kbps and auto baud rate detection

- 6. Select “Block” and add required blocks as per requirement.

DeviceNet				
Communication		Block		
Name	I/O Type	Data Type	Length	Comment
Block1	Read	UInt32	4	Master to Slave
Block2	Write	UInt32	4	Slave to Master

Fig: HMI configuration screen

Block is like object. Length indicates number of elements in Object. Maximum length supported is 63 for a block



In given example,

Master to Slave

Block1: Read, UInt32 type, Length = 4

+	-Local:5:I	{...}
-	-Local:5:O	{...}
+	-Local:5:O.CommandRegister	{...}
-	-Local:5:O.Data	{...}
+	-Local:5:O.Data[0]	0
+	-Local:5:O.Data[1]	0
+	-Local:5:O.Data[2]	0
+	-Local:5:O.Data[3]	0

Similarly

Slave to Master

Block2: Write, UInt16, Length = 4

[-] Local:5:I	{...}
[+] Local:5:I.Fault	2#0000_000...
[+] Local:5:I.Status	{...}
[+] Local:5:I.StatusRegister	{...}
[-] Local:5:I.Data	{...}
[+] Local:5:I.Data[0]	0
[+] Local:5:I.Data[1]	0
[+] Local:5:I.Data[2]	0
[+] Local:5:I.Data[3]	0

7. Make sure that all the required blocks are entered in HMI slave configuration screen in HMI editing software. Then, click “OK” to finish block configuration. For best results, suggest to use maximum length in a block instead of using several blocks
8. In project explorer, double click “Tags” and check all the network tags. If required, it is possible to modify Tag names here. Once tag names are modified and linked with objects, do not attempt to modify configuration of blocks again at connections in Project explorer. Before modification of tag names in tag data base, make sure block settings are completely finished at Connections

## Tag

User Define | System | Conversion

8 /8

Connection

DeviceNet

Name

Block2\_3

Read/Wri

Read & Write

Type

Analog

Scan mode

Automatic

Scan rate

100

ms

Conversion

Disable

Comment

Slave to Master

Register

DeviceNet.Block2.3

Gain

1

Offset

0

	Connection	Name	Type	Scan mode	Scan rate	Register	Comment
	DeviceNet	Block1_1	Analog	Automatic	100	DeviceNet.Block1.1	Master to Slave
	DeviceNet	Block1_2	Analog	Automatic	100	DeviceNet.Block1.2	Master to Slave
	DeviceNet	Block1_3	Analog	Automatic	100	DeviceNet.Block1.3	Master to Slave
	DeviceNet	Block2_0	Analog	Automatic	100	DeviceNet.Block2.0	Slave to Master
	DeviceNet	Block2_1	Analog	Automatic	100	DeviceNet.Block2.1	Slave to Master
	DeviceNet	Block2_2	Analog	Automatic	100	DeviceNet.Block2.2	Slave to Master
▶	DeviceNet	Block2_3	Analog	Automatic	100	DeviceNet.Block2.3	Slave to Master

Create application as per project requirements and then download application to HMI. Please check HMI user manual for procedures how to download application from PC to HMI



**After application download to HMI, it is a must to recycle power to HMI.**

Switch OFF power supply to HMI and switch ON power supply to HMI. Then only networking application works properly. At power on, it might show message "Extension card fail" in HMI. Press "OK". If tags are linked with text boxes, it may show "Error" while reading data from Master to Slave. Once Master is started, communication will be established with slave and "Error" message disappears in objects and show real time data

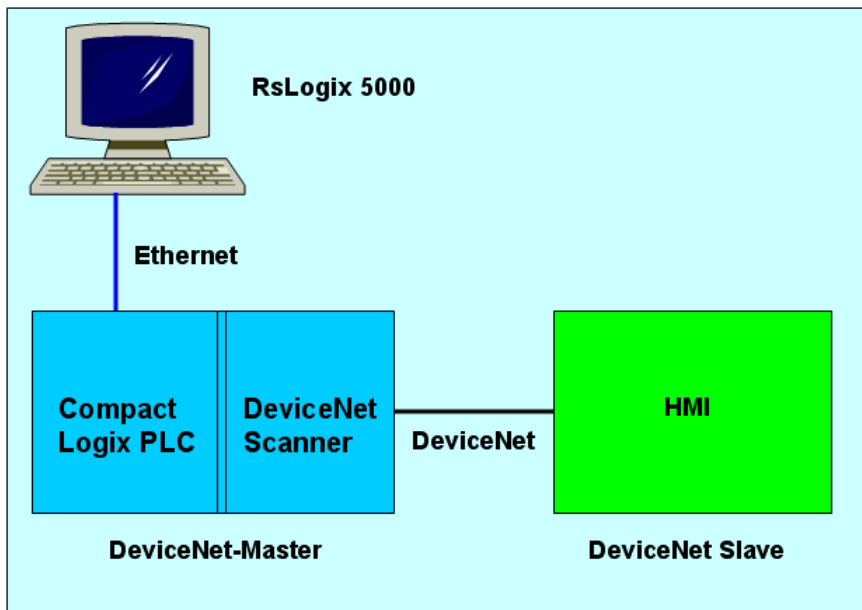
## 7. PLC CONFIGURATION

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In this case the Compact Logix PLC from Allen Bradley has been used as a Master on the DeviceNet network. To configure the PLC, RSLogix 5000 software used.



It is expected user is fully aware of RSLogix5000 software and DeviceNet configuration tool RsNetworx from Allen Bradley. If any further questions on Rslogix 5000 or RsNetworx ® software, please check documentation from Allen Bradley/Rockwell automation



**Fig: Test setup**

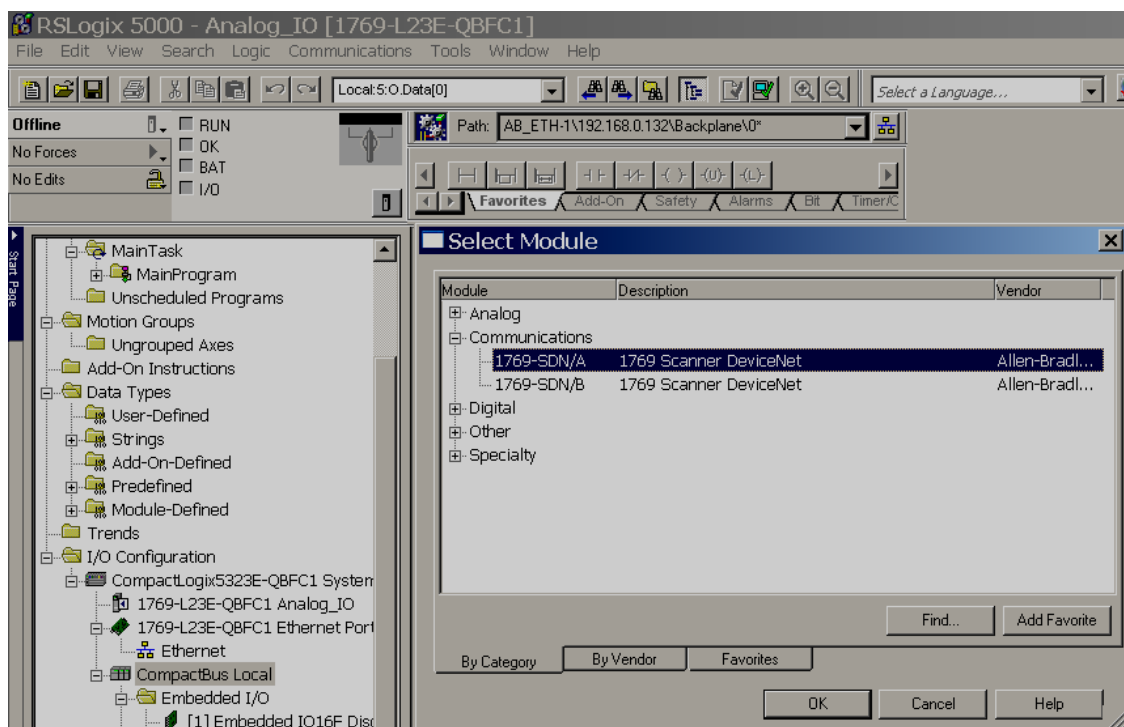
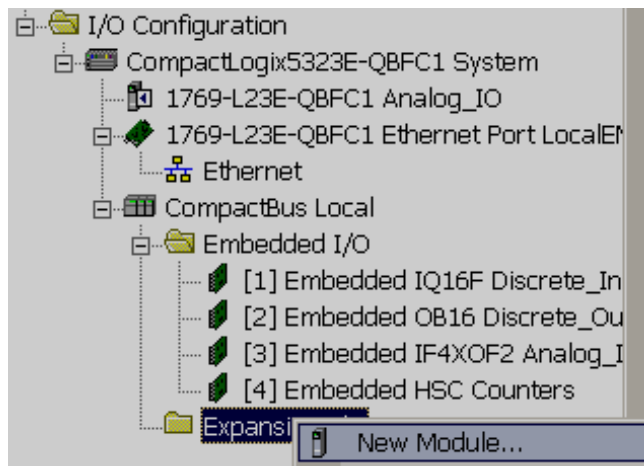
Make sure sample application download to HMI, Connect HMI to DeviceNet network, Power ON HMI.

### 7.1 DeviceNet scanner configuration

Create new project in RSLogix 5000 software

Add DeviceNet scanner





Remember, each DeviceNet scanner will have limitations in data exchange. Please check specific DeviceNet scanner documentation for data limits

For example, 1769-SDN/A will support maximum Input size = 90 , 32 bit type and output size = 90, 32 bit type

**New Module**

Type: 1769-SDN/A 1769 Scanner DeviceNet

Vendor: Allen-Bradley

Name: BC\_HMI

Slot: 5

Description:

Input Size: 4 (32-bit)

Output Size: 4 (32-bit)

Revision: 1

Electronic Keying: Compatible Keying

☒ Open Module Properties

OK Cancel Help

In this application, the task is to exchange 4 data (32bit type) from Master to Slave and Slave to Master, so selected Input size = 4 and Output size = 4

Please note that the type of data that is going to be exchanged depends on DeviceNet scanner. Please make sure, you are using same data type at both PLC and HMI configuration, other wise, unpredictable results may

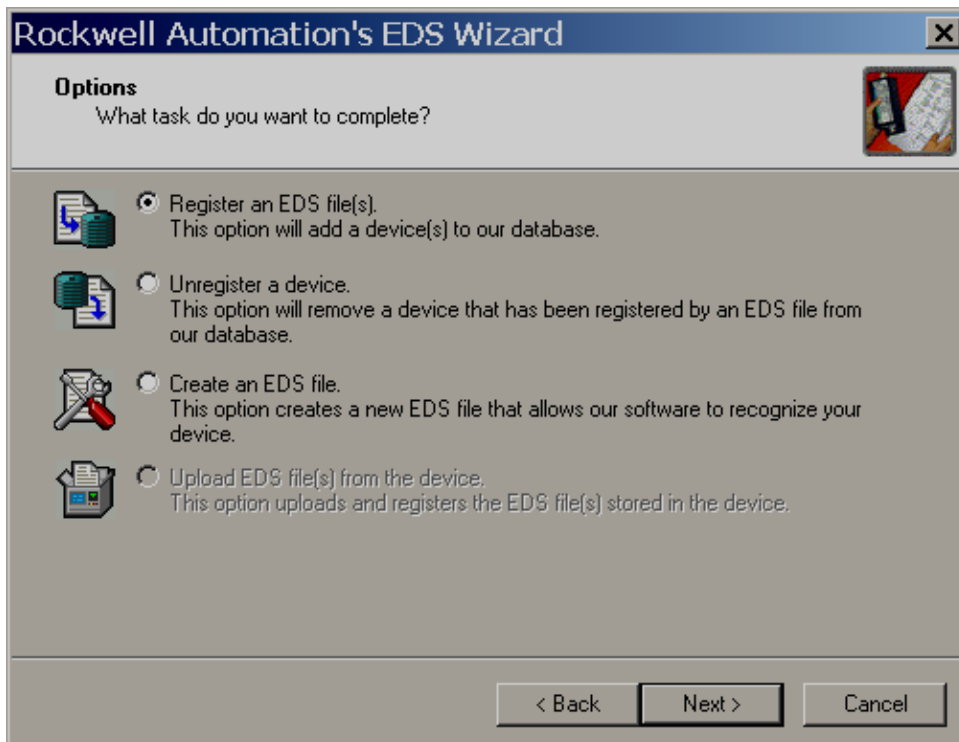
Save the project

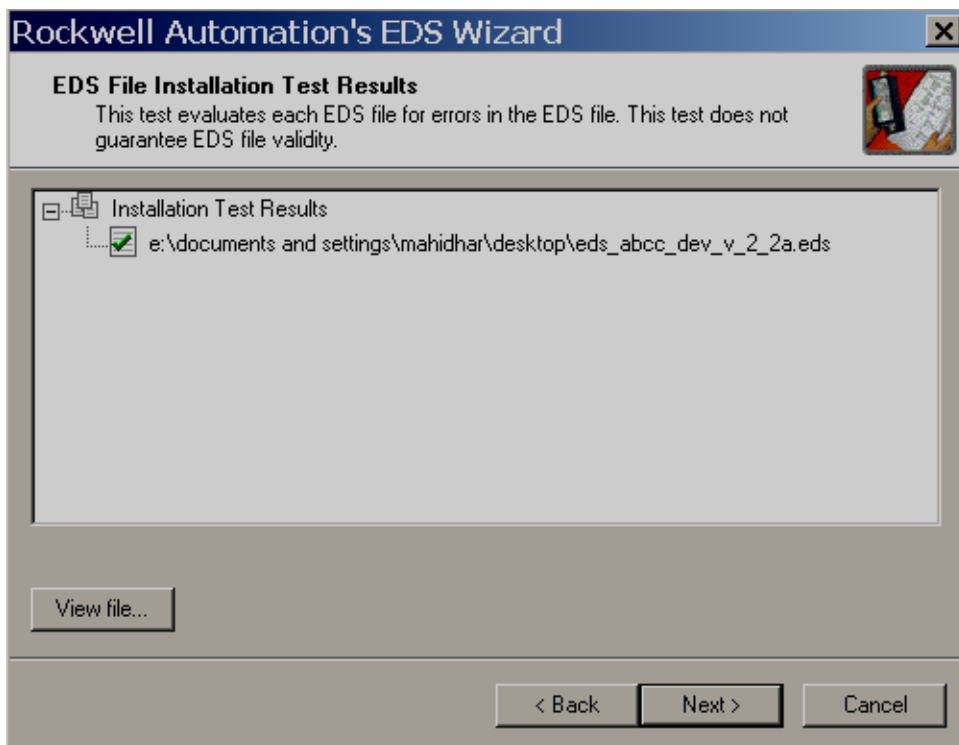
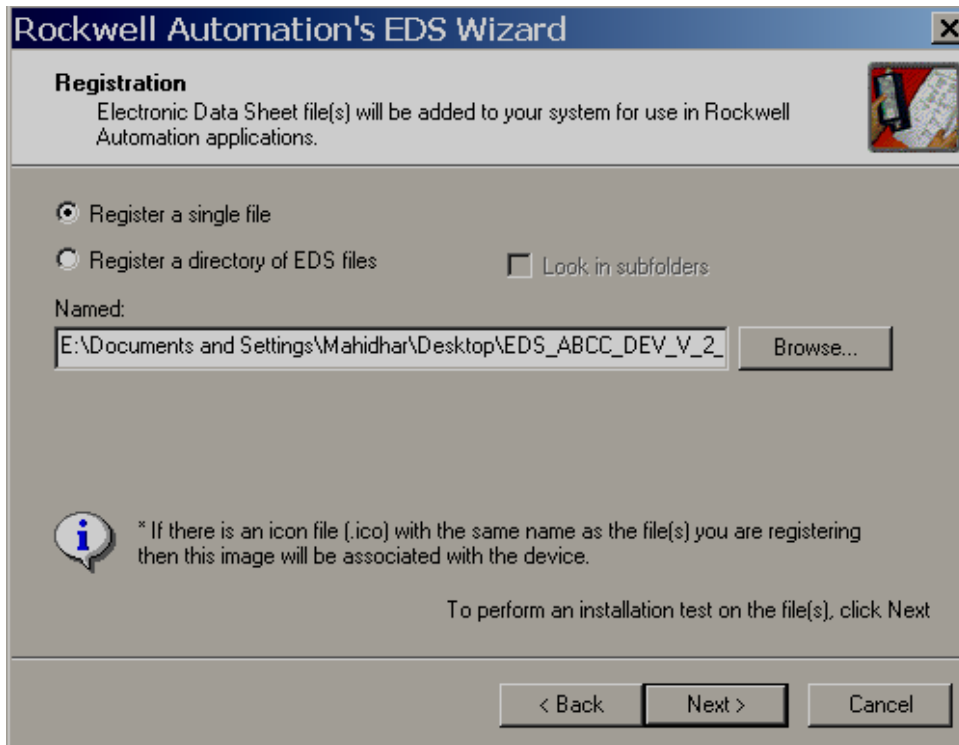
## 7.2 Register DeviceNet slave EDS file

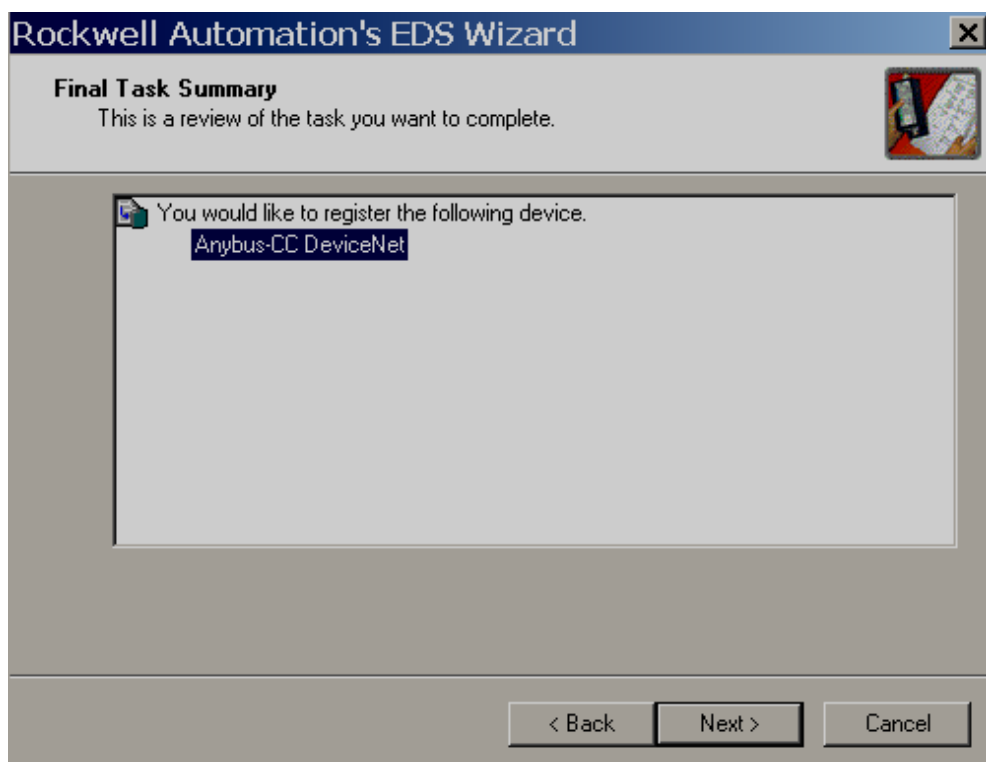
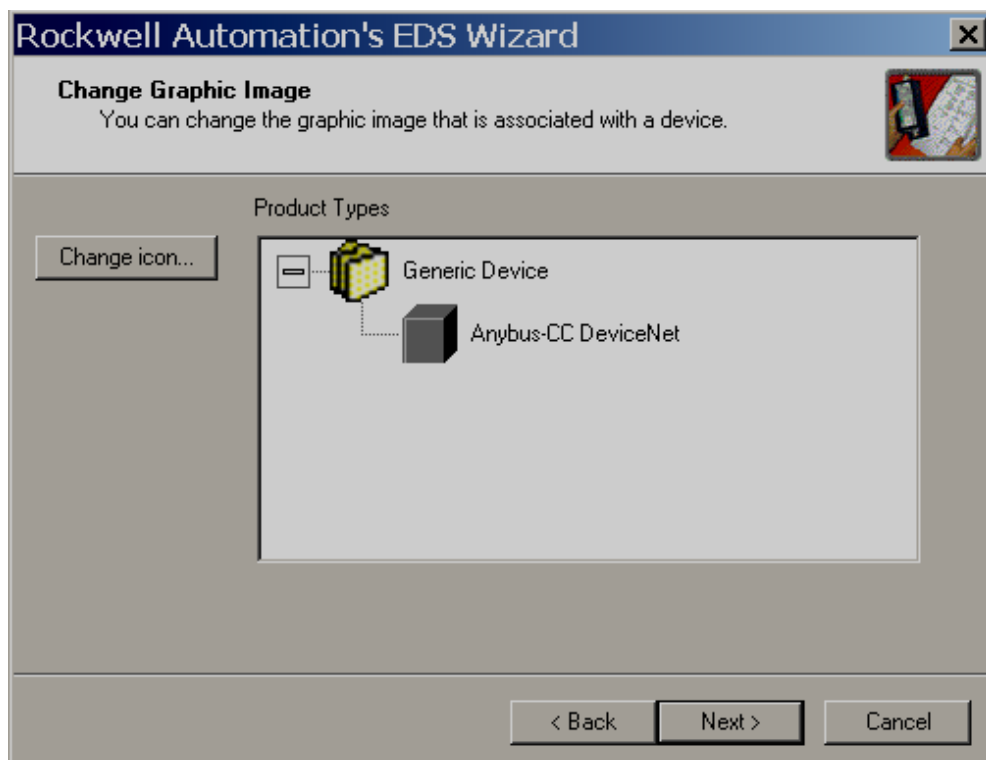
Open RSNetworx for DeviceNet.

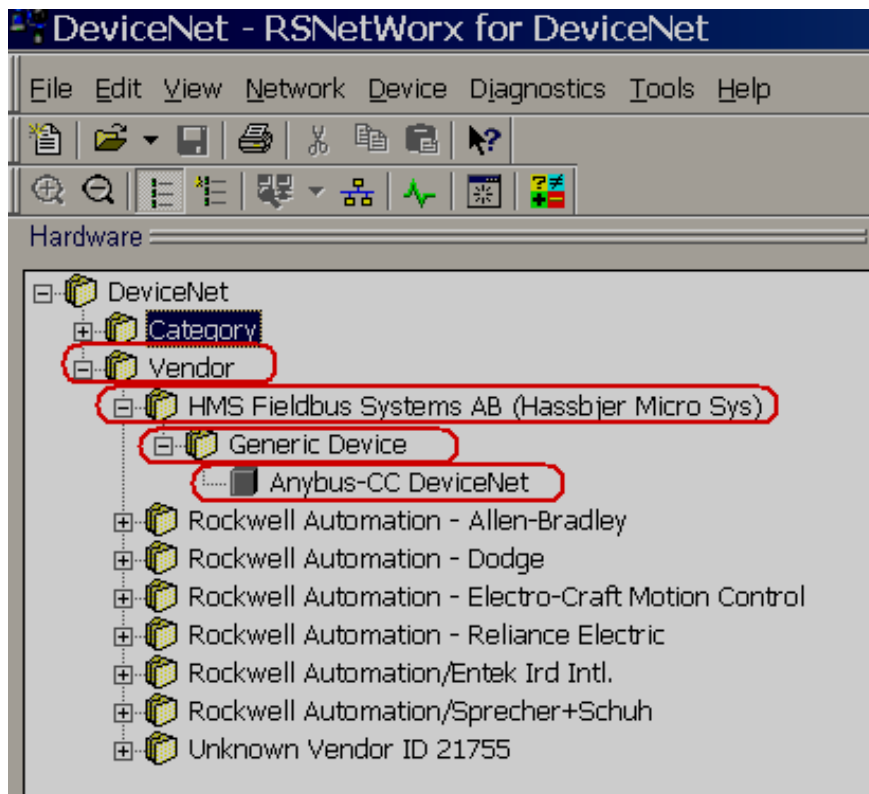
Register EDS file as per procedure explained below





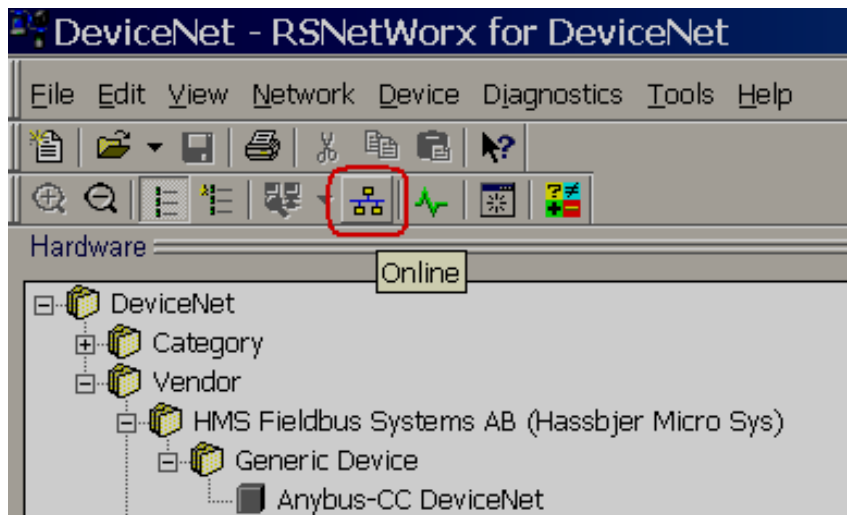




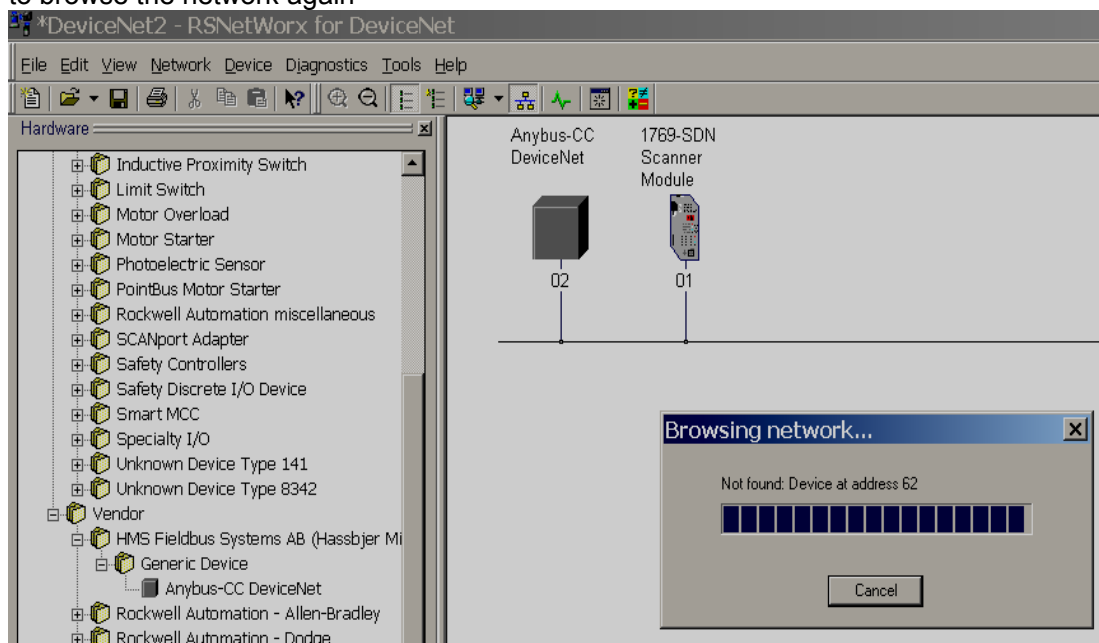


Make sure you are at "Graph" tab in RsNetwork

Browse network from 




If DeviceNet Slaves are already connected to Network, they should be detected at this step. If DeviceNet slave is not detected, either there are issues with EDS file registration or you might not configured DeviceNet slave properly in HMI editing software and download to HMI. Please restart PLC and HMI once if required and try to browse the network again



**1769-SDN Scanner Module** [?] [X]

General | Module | Scanlist | Input | Output | ADR | Summary

 1769-SDN Scanner Module

Name:

Description:

Address:

Device Identity [ Primary ]


Vendor:	<input type="text" value="Rockwell Automation - Allen-Bradley [1]"/>
Type:	<input type="text" value="Communication Adapter [12]"/>
Device:	<input type="text" value="1769-SDN Scanner Module [105]"/>
Catalog:	<input type="text" value="1769-SDN"/>
Revision:	<input type="text" value="2.002"/>

[Left Arrow] [Right Arrow]

[OK] [Cancel] [Apply] [Help]


**1769-SDN Scanner Module** [?] [X]

General | Module | Scanlist | Input | Output | ADR | Summary

 1769-SDN Scanner Module

Name:

**Scanner Configuration Applet** [X]

 Do you want to upload the configuration from the device, updating the software's configuration; or download the software's configuration to the device, updating the device?

For more information, press F1

Click "Upload"



1769-SDN Scanner Module

General Module Scanlist Input Output ADR Summary

Interscan Delay: 10 msec Upload from Scanner

Foreground to Background Poll Ratio: 1 Download to Scanner

Module Defaults

Slave Mode...

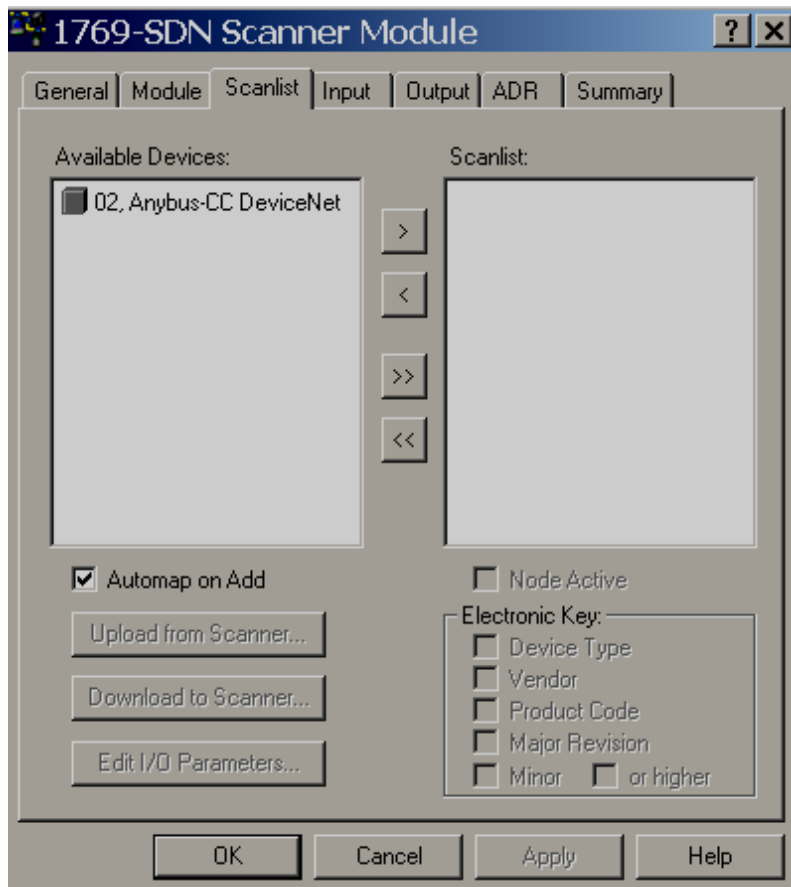
Advanced...

1769-SDN:

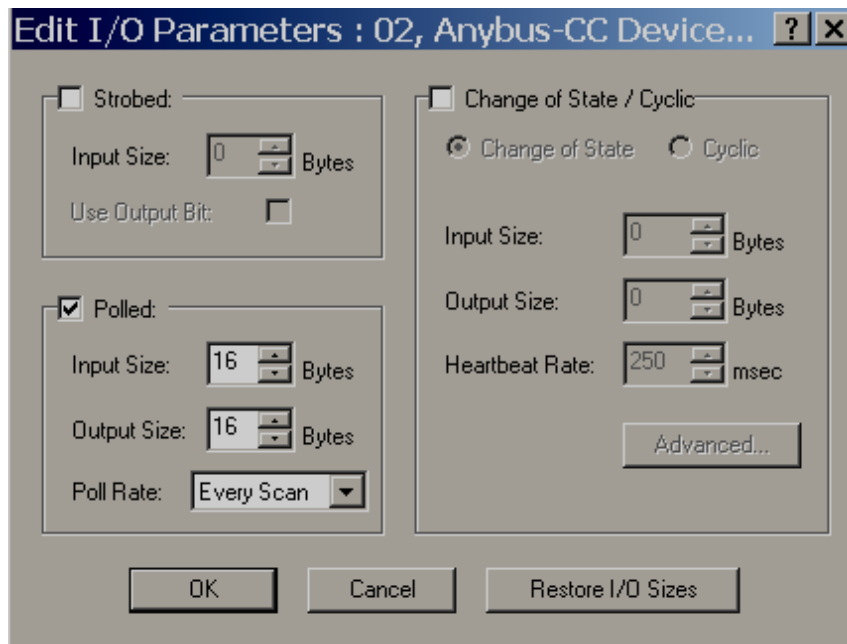
Platform: CompactLogix

Slot: 1

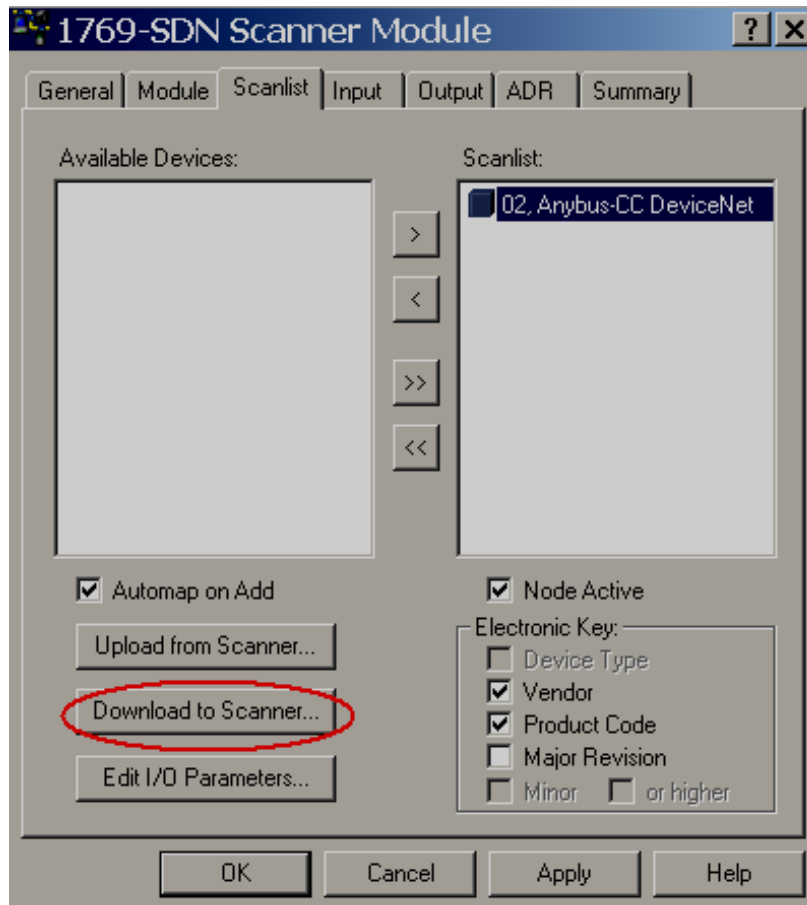
OK Cancel Apply Help

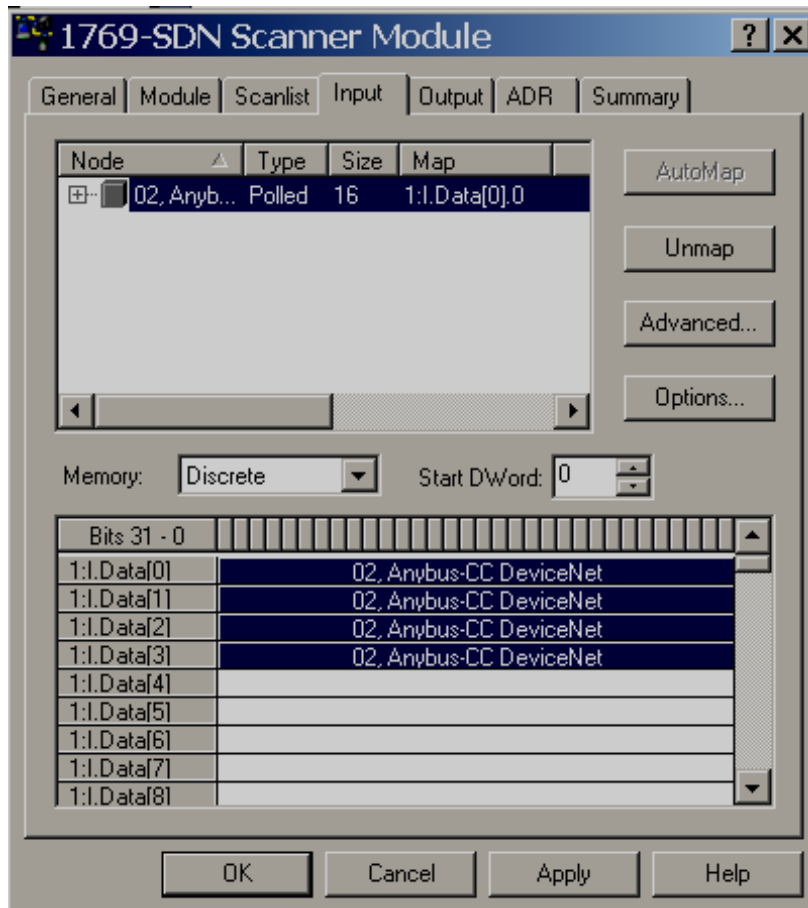


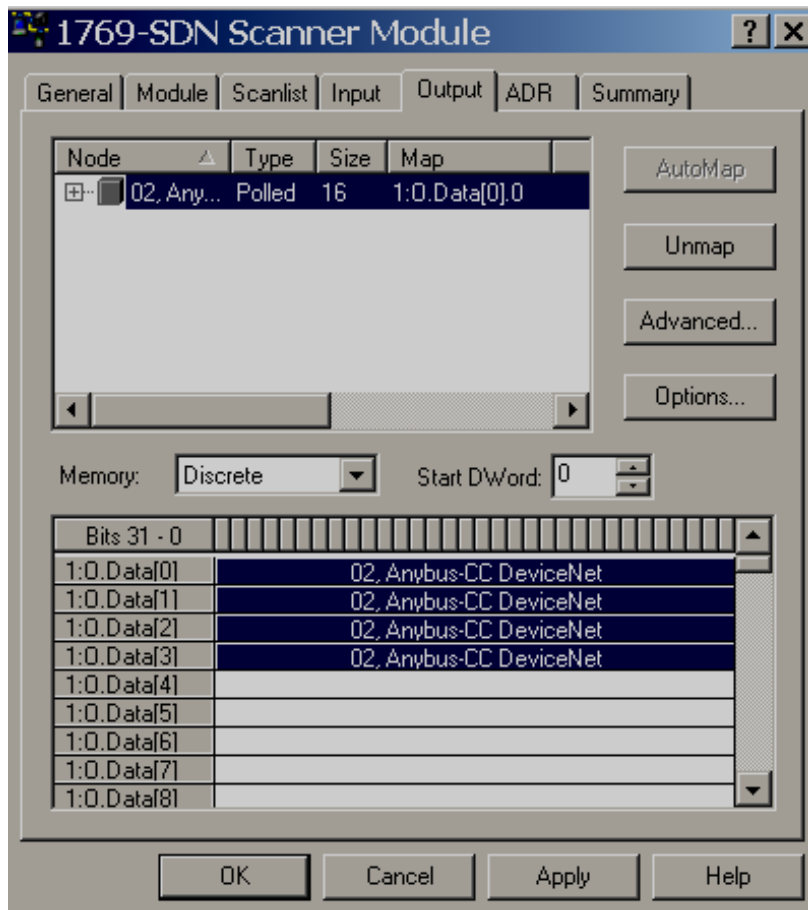
If you add Slave module manually in RsNetworkx, it may appear this device at “Available devices”. Make sure, this device is moved to Scan list using > arrow and then click “Download to Scanner”.



Select the device, click Edit I/O parameters, make sure the Input size and Output sizes are exactly same as configuration defined at HMI. Generally, if already download application to HMI, browse the network, upload from scanner, Input/Output sizes will come automatically. If you add device manually, then, you must define the Input/Output size here before downloading configuration back to Scanner







Check Input and Output sizes as shown above and verify if they are ok or not

**1769-SDN Scanner Module** [?] [X]

General | Module | Scanlist | Input | Output | **ADR** | Summary

☐ Enable Auto-Address Recovery

Available Devices:

Node	ADR
02, Anybus-CC DeviceNet	-

Upload from Scanner

Download to Scanner

ADR Space (in Bytes):

Total: 48760

Used: 0

ADR Settings:

☐ Configuration Recovery

☐ Auto-Address Recovery

Load Device Config

OK Cancel Apply Help

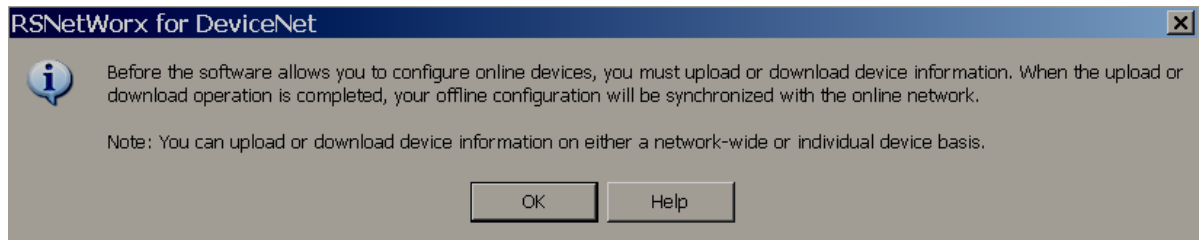
**1769-SDN Scanner Module** [?] [X]

General | Module | Scanlist | Input | Output | **ADR** | Summary

Node	Active	Key	Input	Mapped	Output	Mapped
01, <SL...	No		0	No	0	No
02, Any...	Yes	VP	16	Yes	16	Yes

Save this configuration. By default, this configuration file will be saved at path  
C:\Program files\Rockwell software\RSNetworkxii\Networks

Remember above path.



Note: Please be patient till it Scan all network. Do not interrupt

Now, go back to RSLogix 5000 software, please link above DeviceNet configuration to the DeviceNet scanner

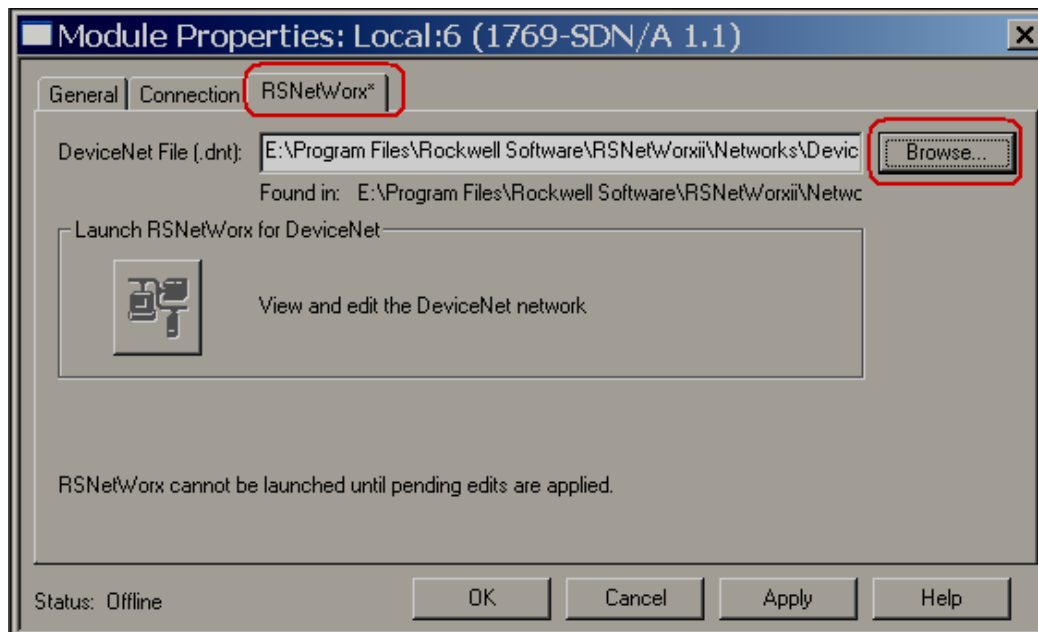
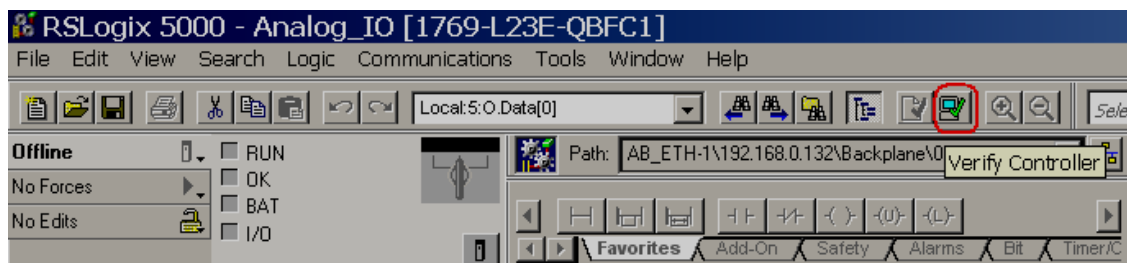
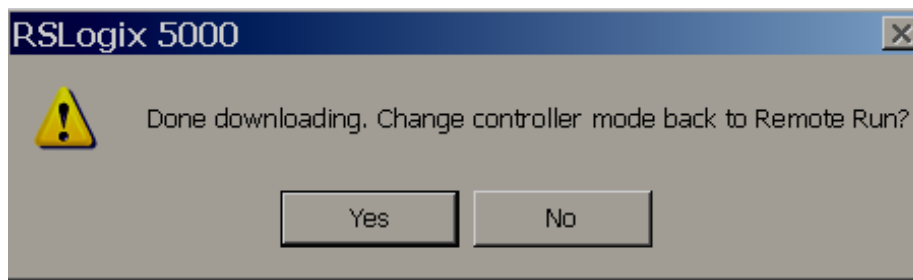
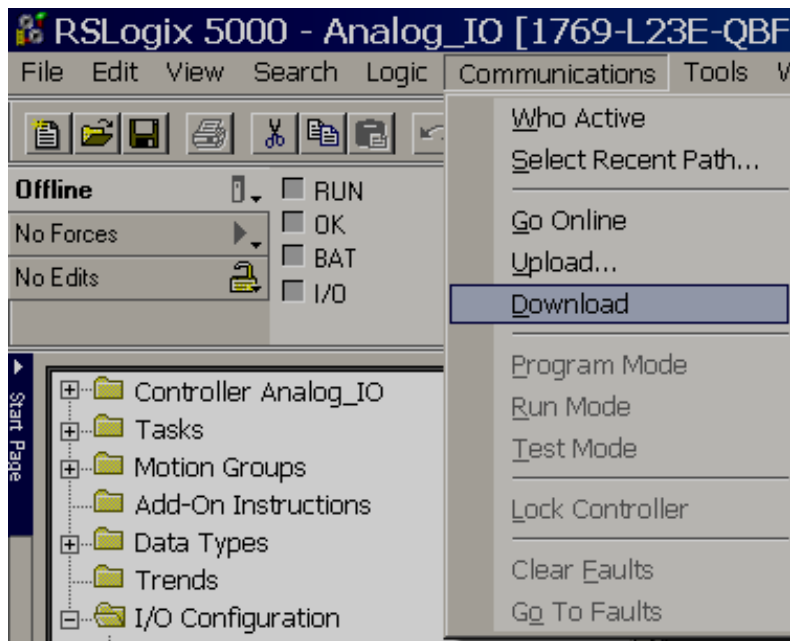


Fig: This is in RSLogix5000 software

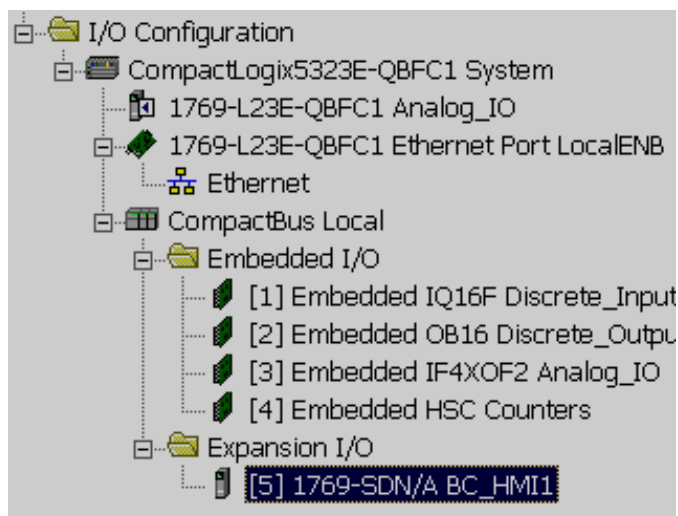
Select the DeviceNet file saved in earlier step.

Click “Apply” and then “OK”





Click “Yes”

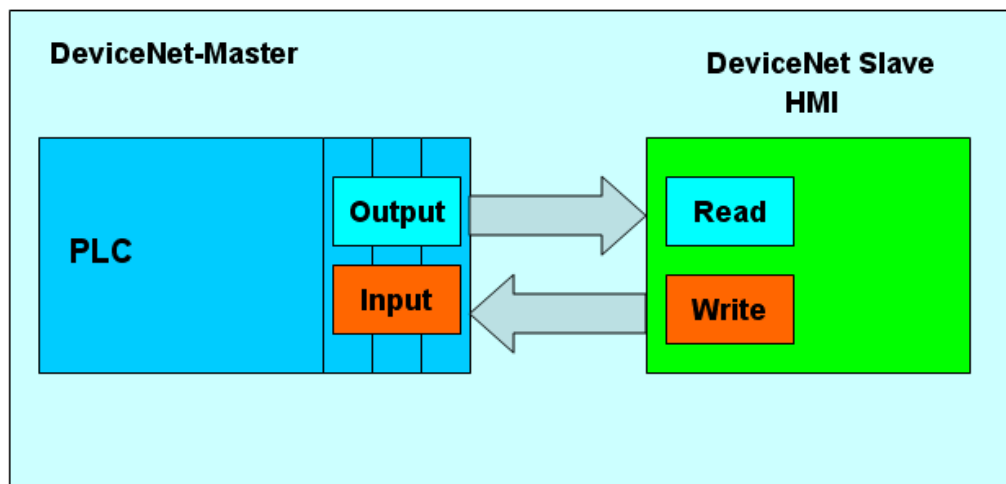


In above case, module number at DeviceNet scanner is 5



[-] Local:5:1	{...}	{...}		AB:1769_SDN_1..
[-] Local:5:1.Fault	2#0000_000...		Binary	DINT
[-] Local:5:1.Status	{...}	{...}		AB:1769_SDN_St
[-] Local:5:1.StatusRegister	{...}	{...}		AB:1769_SDN_St
[-] Local:5:1.Data	{...}	{...}	Decimal	DINT[4]
[-] Local:5:1.Data[0]	0		Decimal	DINT
[-] Local:5:1.Data[1]	0		Decimal	DINT
[-] Local:5:1.Data[2]	0		Decimal	DINT
[-] Local:5:1.Data[3]	0		Decimal	DINT
[-] Local:5:0	{...}	{...}		AB:1769_SDN_2..
[-] Local:5:0.CommandRegister	{...}	{...}		AB:1769_SDN_C..
[-] Local:5:0.CommandRegister.Run	1		Decimal	BOOL
[-] Local:5:0.CommandRegister.Fault	0		Decimal	BOOL
[-] Local:5:0.CommandRegister.DisableNetwork	0		Decimal	BOOL
[-] Local:5:0.CommandRegister.HaltScanner	0		Decimal	BOOL
[-] Local:5:0.CommandRegister.Reset	0		Decimal	BOOL
[-] Local:5:0.Data	{...}	{...}	Decimal	DINT[4]
[-] Local:5:0.Data[0]	0		Decimal	DINT
[-] Local:5:0.Data[1]	0		Decimal	DINT
[-] Local:5:0.Data[2]	0		Decimal	DINT
[-] Local:5:0.Data[3]	0		Decimal	DINT

Note: You must set Local:5:0.CommandRegister.Run=1 to start communication and you may do this from ladder as per your application requirements



## Send data from Master to Slave

Name	Value
[-] Local:5:I.StatusRegister	{...}
[-] Local:5:I.Data	{...}
[-] Local:5:I.Data[0]	0
[-] Local:5:I.Data[1]	0
[-] Local:5:I.Data[2]	0
[-] Local:5:I.Data[3]	0
[-] Local:5:O	{...}
[-] Local:5:O.CommandRegister	{...}
Local:5:O.CommandRegister.Run	1
Local:5:O.CommandRegister.Fault	0
Local:5:O.CommandRegister.DisableNetwork	0
Local:5:O.CommandRegister.HaltScanner	0
Local:5:O.CommandRegister.Reset	0
[-] Local:5:O.Data	{...}
[-] Local:5:O.Data[0]	11
[-] Local:5:O.Data[1]	12
[-] Local:5:O.Data[2]	13
[-] Local:5:O.Data[3]	14

Screen1 X

Inputs (Block1), Read Master to Slave

1_0	11
1_1	12
1_2	13
1_3	14

First

Next

Prev

Last

## Send data from Slave to Master

Screen2

**Outputs (Block2), Write Slave to Master**

2_0	22	▲▼
2_1	33	▲▼
2_2	44	▲▼
2_3	55	▲▼

First  
Next  
Prev  
Last

Controller Tags - Analog\_IO(controller)

Scope:  Show... Show All

Name	Value
[-Local:4:C	{ ... }
[-Local:4:I	{ ... }
[-Local:4:O	{ ... }
[-Local:5:I	{ ... }
[-Local:5:I.Fault	2#0000_000...
[-Local:5:I.Status	{ ... }
[-Local:5:I.StatusRegister	{ ... }
[-Local:5:I.Data	{ ... }
[-Local:5:I.Data[0]	22
[-Local:5:I.Data[1]	33
[-Local:5:I.Data[2]	44
[-Local:5:I.Data[3]	55

## 8. CONVERTER

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It is possible to do scaling in HMI application for Read/Write blocks

Task1: Read (Master to Slave)

PLC Value range= 0 to 65535.

Convert this to 0 to 100 and display in HMI

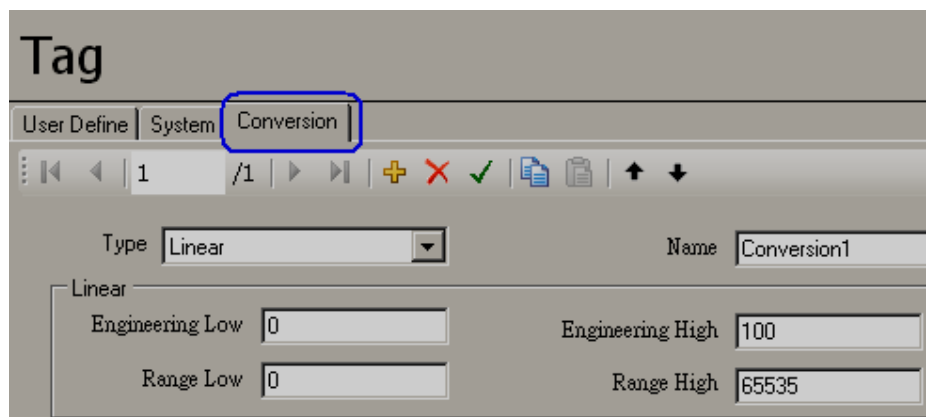
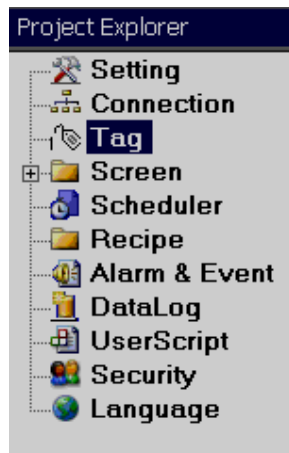
Use Block1, Unsigned integer 32 type in HMI configuration

Task2: Write (Slave to Master)

Write 0 to 100 in HMI. Convert this to 0 to 65535 and send to PLC

Use Block2, Unsigned integer 32 type in HMI configuration

Read, Block1_0		Write, Block2_0	
Value at PLC	Value Read in HMI	Value write in HMI	Value at PLC
0	0	0	0
32767	50	50	32767
65535	100	100	65535



Enter Scaling equation at “Conversion” tab

**Tag**

User Define | System | Conversion

2 / 8

Connection: DeviceNet

Name: Block1\_1

Read/Wri: Read & Write

Type: Analog

Scan mode: Automatic

Scan rate: 100 ms

Conversion: Conversion1

Comment: Master to Slave

Register: DeviceNe

Gain: 1

Offset: 0

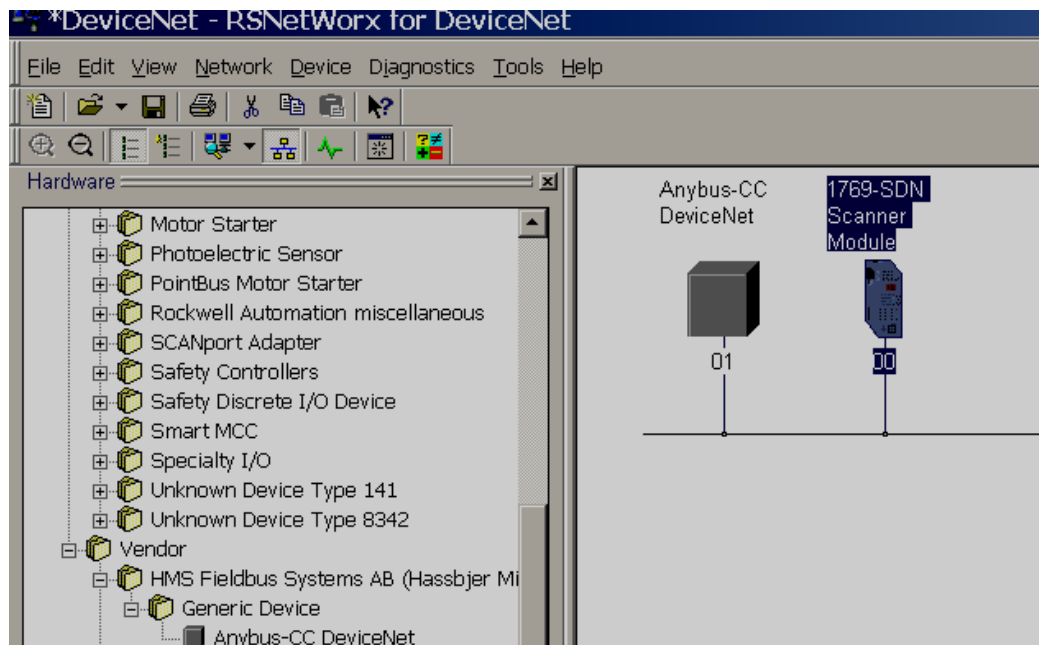
	Connection	Name	Type	Scan mode	Scan rate
▶	DeviceNet	Block1_1	Analog	Automatic	100
	DeviceNet	Block1_2	Analog	Automatic	100

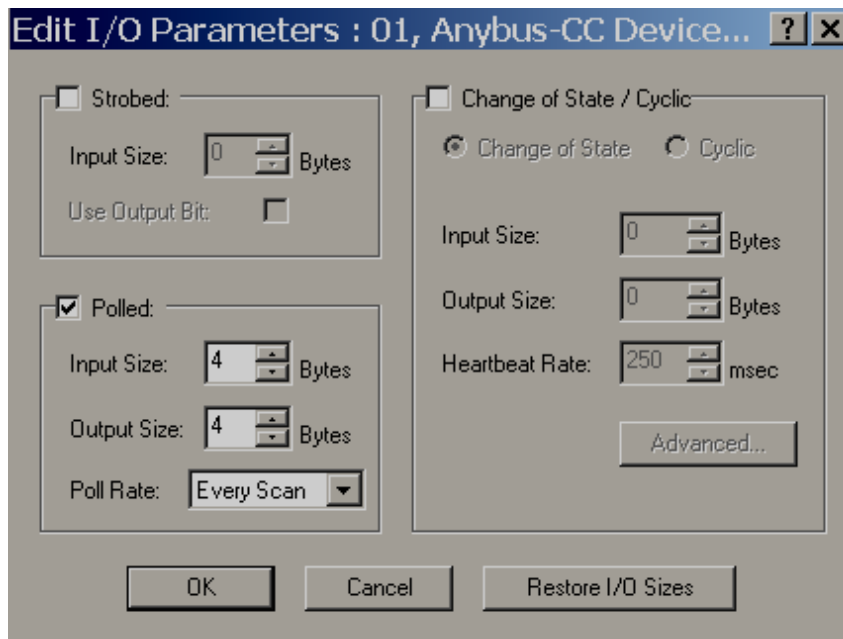
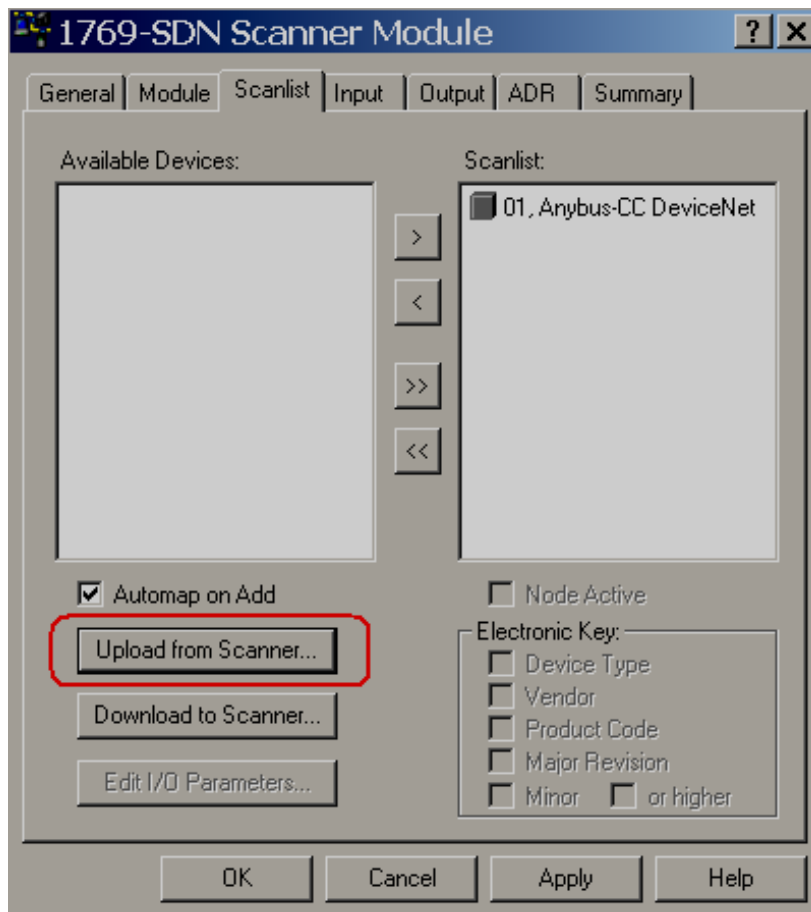
Select required Conversion equation for the networking tags as shown above

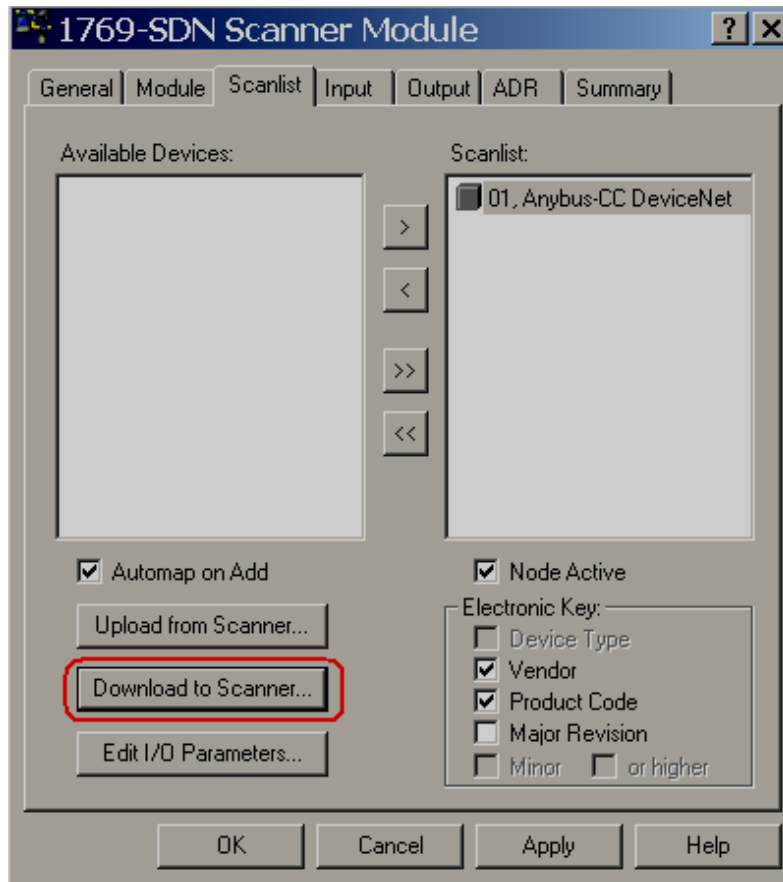
## 9. EXAMPLES

### 9.1.1 32 bits Read, 32 bits write

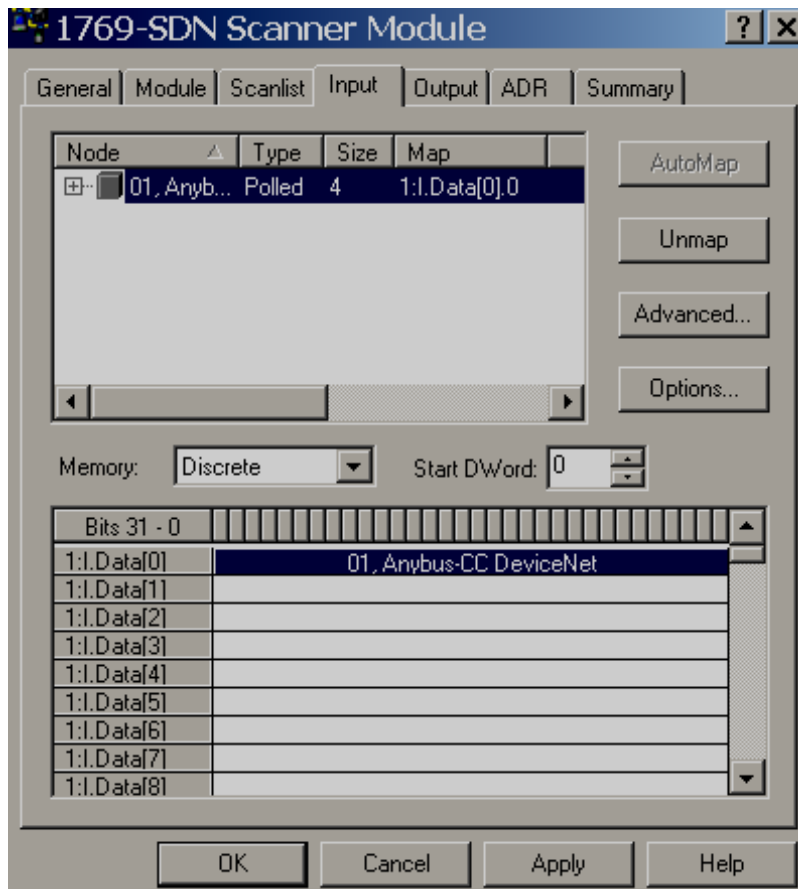
Data type	PLC address	HMI block address	HMI tag name	HMI IO type	Description
UInt32	Tag2	Block1	Block1	Read	Master to Slave
UInt32	Tag1	Block2	Block2	Write	Slave to Master

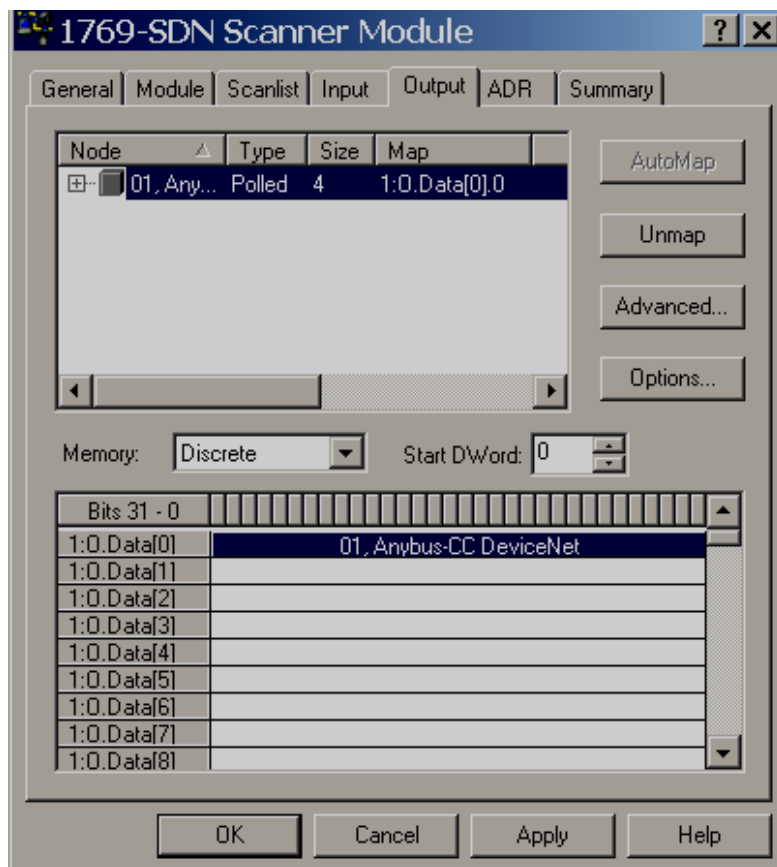


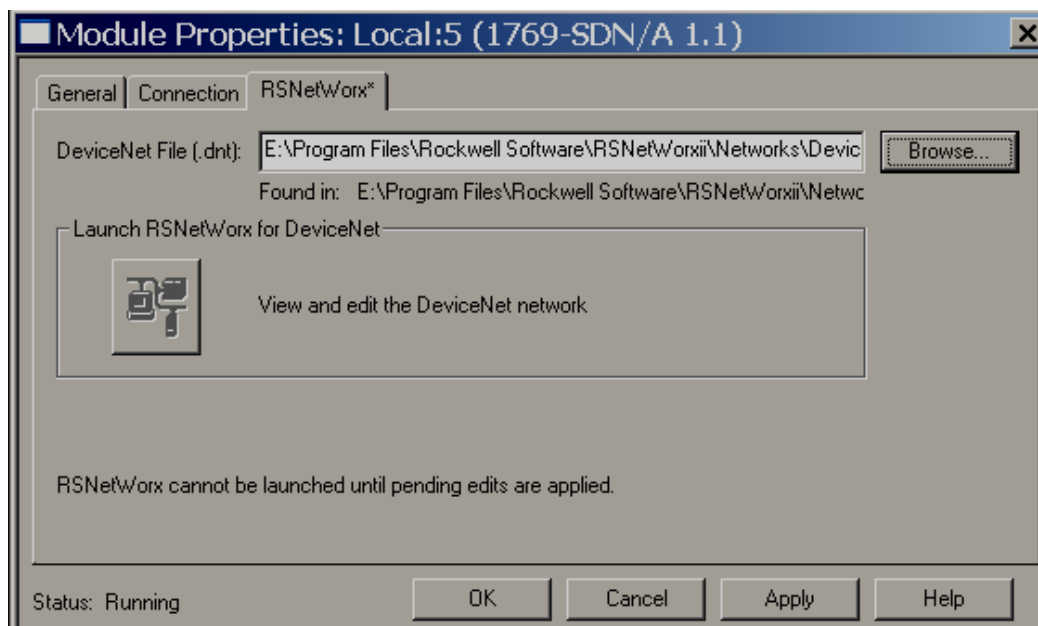
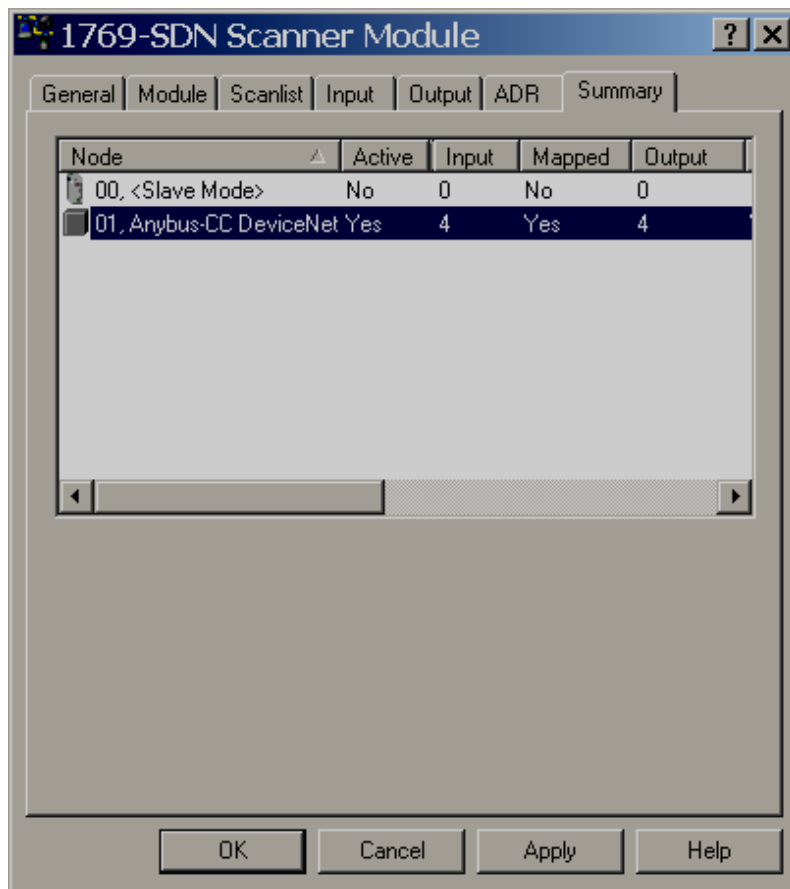




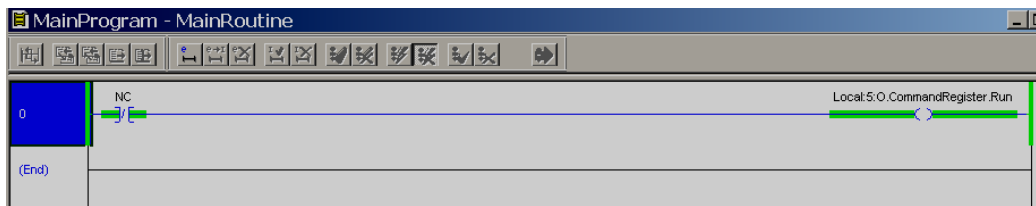




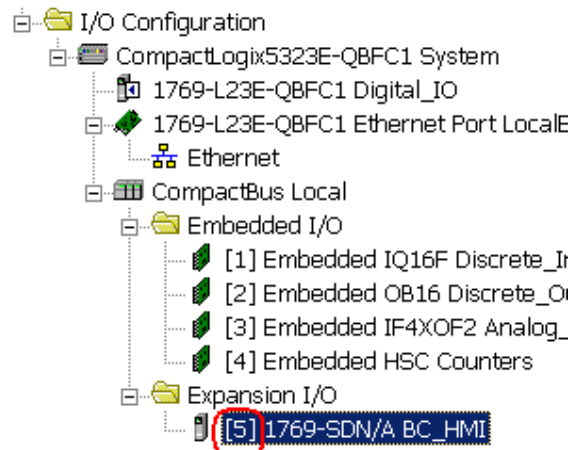




Compile and download application from PC to PLC

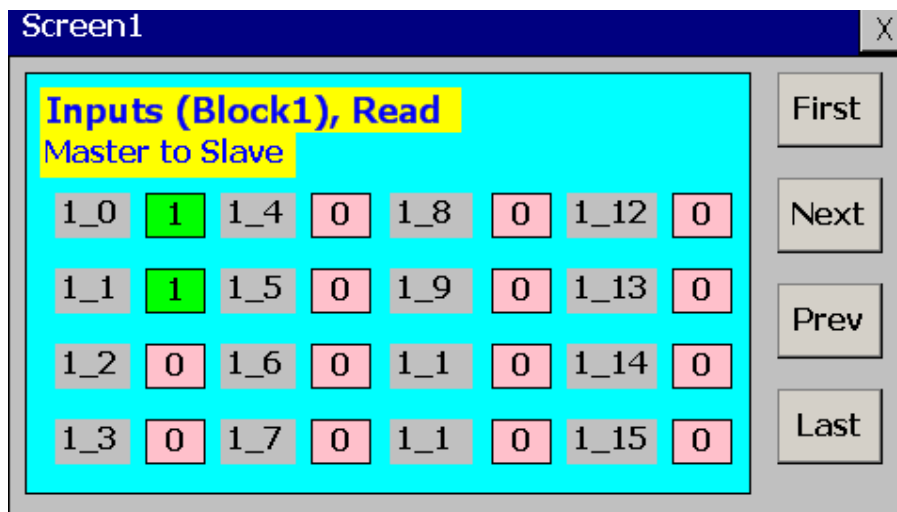
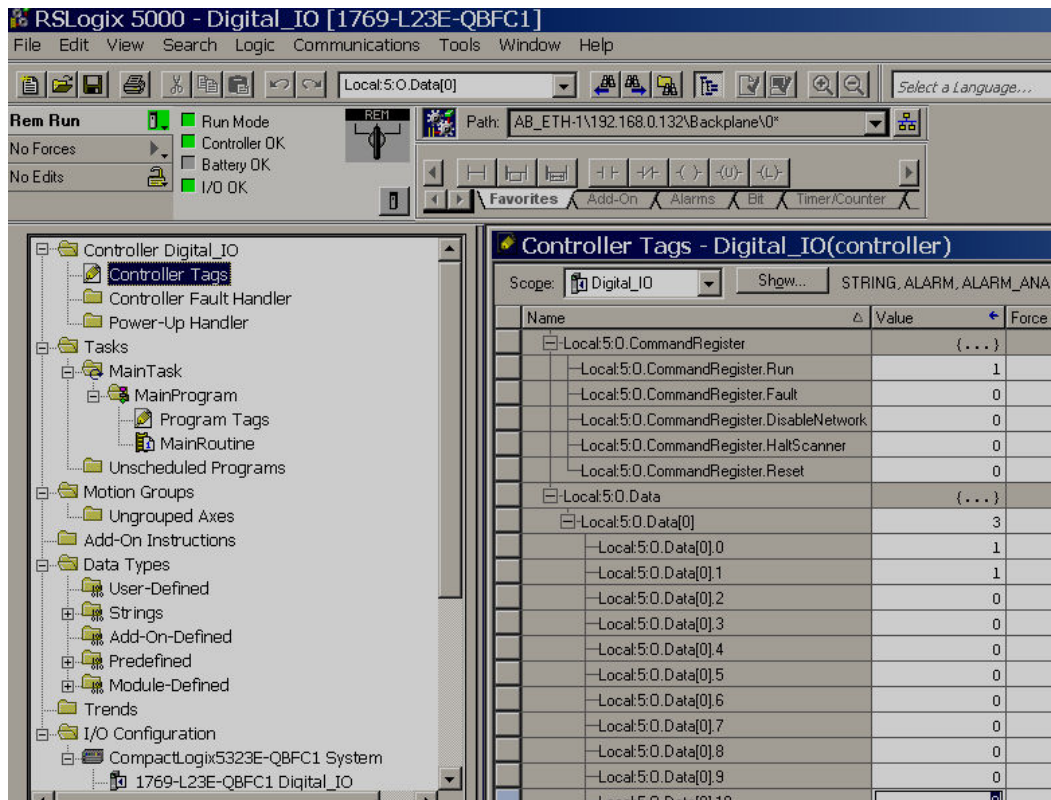


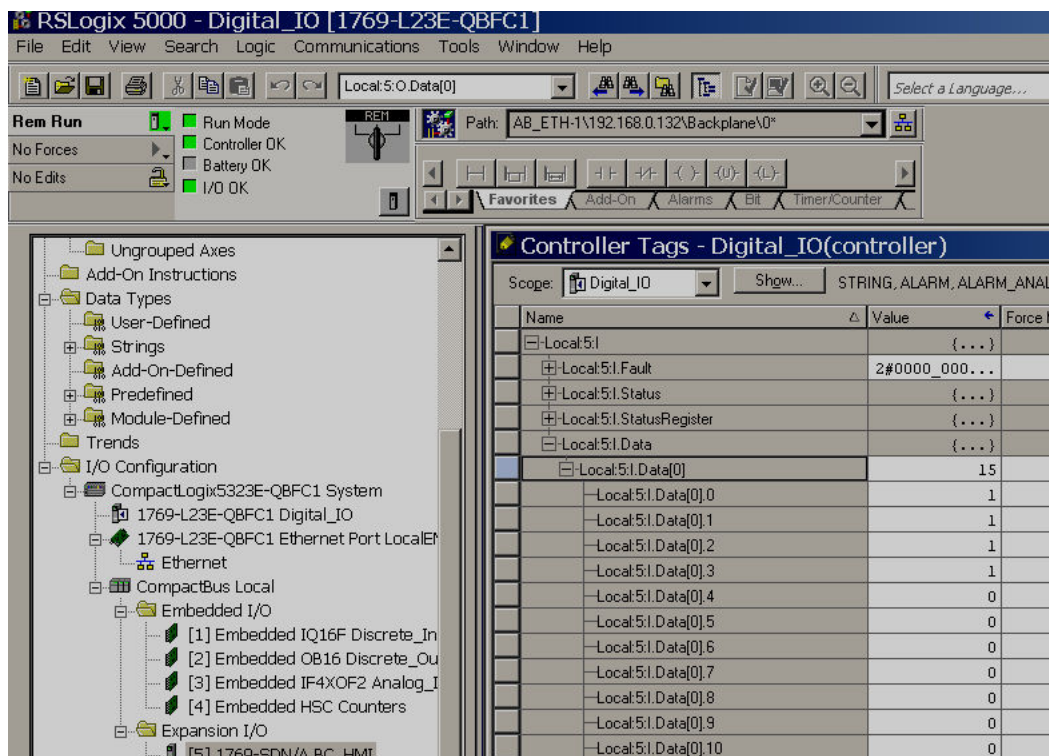
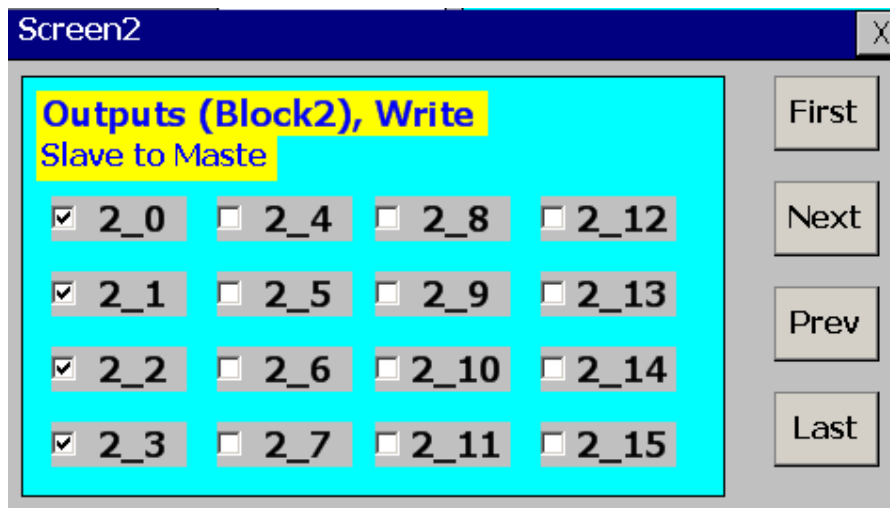
Make sure Local:5:O.CommandRegister.Run is set to 1 as shown above



Local:5 is slot number allotted to DeviceNet scanner

DeviceNet				
Communication		Block		
Name	I/O Type	Data Type	Length	Comment
Block1	Read	UInt32	1	Master to Slave
Block2	Write	UInt32	1	Slave to Master





## 10. FAQ

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1. Can we order HMI first and then network extension card later? Can I fix network extension card my self?  
Yes, it is possible.
2. All HMI support network extension card  
Check HMI ordering code for Network extension card availability
3. After inserting network extension card, HMI is Master or Slave on specific network?  
Slave
4. Is it possible to have more than 1 HMI in DeviceNet network  
Yes, it is possible.
5. Is it possible to connect 1 HMI to 2 Masters on DeviceNet?  
No, it is not possible.
6. Can I access AB Control logix PLC addressing areas directly in HMI software  
No, it is not possible
7. What is the maximum data I can exchange between Master and Slave  
Master to Slave: 256 bytes  
Slave to Master: 256 bytes  
Total: 512 bytes
8. Is EDS file is required to configure DeviceNet slave  
Depends on Master
9. What are the settings required in DeviceNet slave  
ID number, baud rate and block configuration is required.
10. How many blocks I can add in HMI configuration.  
By default, block length=1 and number of blocks you add depends on your project configuration. For best performance, we suggest to create only one block for Read and One block for Write and then adjust length for the block  
  
For ex: if you wish to transfer 4 Uint32 data from Slave to Master, then, you can define 1 blocks of type Unit32, length=4, Write
11. I am getting message "Extension card fail" in HMI after power on.  
Please switch OFF power supply to HMI and Power ON again after downloading application from PC to HMI.
12. DeviceNet configuration tool did not find DeviceNet slave device  
Make sure DeviceNet network module is properly inserted in HMI. Download demo program (Analog) to HMI, Now, make sure DeviceNet cable is connected COM3 port to Master device. Now press "RUN" at HMI from Control center. At this time, create a new project in DeviceNet configuration tool, go to Online to scan the devices.

13. I have 2 HMI configured as DeviceNet slave. Can I connect both these HMI's to DeviceNet network and exchange data with Master?

Yes, it is possible. Make sure that connections are made properly between all the Master and Slave devices

14. Can I exchange data between two slaves directly with out Master?  
No, it is not possible. You must do this via Master only