

# Quick Start Guide LINKS for BACnet



For Building Automation Systems:  
BACnet MS/TP and BACnet/IP

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# Connection

## Requirements

- Laptop
- CAT5 Ethernet cable

## Connect the PC to the LINKS card via the Ethernet Port



1. Connect a CAT5 Ethernet cable (Straight through or Cross-Over) between the local PC and ProtoCarrier. The Default IP Address of the LINKS card is 192.168.1.24, Subnet Mask is 255.255.255.0. If the PC and the LINKS card are on different IP Networks, assign a static IP Address to the PC on the 192.168.1.xxx network.

For Windows XP

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Go to  >  Control Panel >  Network Connections

Right-click on Local Area Connection > Properties



Highlight   Internet Protocol (TCP/IP) > 

For Windows 7

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Go to  >  Control Panel >  Network and Internet >  Network and Sharing Center > [Change adapter settings](#)


Right-click on Local Area Connection > Properties

Highlight   Internet Protocol Version 4 (TCP/IPv4) > 

2. For Windows XP and Windows 7, use the following IP Address:

<input checked="" type="radio"/> Use the following IP address:	
IP address:	<input type="text" value="192 . 168 . 168 . 11"/>
Subnet mask:	<input type="text" value="255 . 255 . 255 . 0"/>
Default gateway:	<input type="text" value=" . . ."/>

update

3. Click  twice.

# Configuration

## Connecting to the LINKS Web Configurator

1. After setting a local PC on the same subnet as the LINKS card, open a web browser on the PC and enter the IP Address of the LINKS card. Default: 192.168.1.24.

*NOTE: If the IP Address of the LINKS card has been changed by previous configuration, the assigned IP Address must be gathered from the network administrator.*

The web configurator page will appear as below.



Configuration Parameters		
Parameter Name	Parameter Description	Value
protocol_select	<b>Protocol Selector</b> Set to 1 for BACnet MSTP Set to 2 for BACnet IP Set to 3 for Metasys N2	<input type="text" value="1"/> <input type="button" value="Submit"/>
mod_baud_rate	<b>Modbus RTU Baud Rate</b> This sets the Modbus RTU baud rate. (9600/19200/38400)	<input type="text" value="9600"/> <input type="button" value="Submit"/>
mod_parity	<b>Modbus RTU Parity</b> This sets the Modbus RTU parity. (None/Even/Odd)	<input type="text" value="None"/> <input type="button" value="Submit"/>
mod_data_bits	<b>Modbus RTU Data Bits</b> This sets the Modbus RTU data bits. (7 or 8)	<input type="text" value="8"/> <input type="button" value="Submit"/>
mod_stop_bits	<b>Modbus RTU Stop Bits</b> This sets the Modbus RTU stop bits. (1 or 2)	<input type="text" value="1"/> <input type="button" value="Submit"/>
network_nr	<b>BACnet Network Number</b> This sets the BACnet network number of the Gateway. (1 - 65535)	<input type="text" value="50"/> <input type="button" value="Submit"/>
node_offset	<b>BACnet Node Offset</b> This is used to set the BACnet device instance. The device instance will be sum of the Modbus device address and the node offset. (0 - 4194303)	<input type="text" value="50000"/> <input type="button" value="Submit"/>
bac_mac_addr	<b>BACnet MSTP Mac Address</b> This sets the BACnet MSTP MAC address. (1 - 127)	<input type="text" value="127"/> <input type="button" value="Submit"/>
bac_baud_rate	<b>BACnet MSTP Baud Rate</b> This sets the BACnet MSTP baud rate. (9600/19200/38400/76800)	<input type="text" value="38400"/> <input type="button" value="Submit"/>
bac_max_master	<b>BACnet MSTP Max Master</b> This sets the BACnet MSTP max master. (1 - 127)	<input type="text" value="127"/> <input type="button" value="Submit"/>
bac_cov_option	<b>BACnet COV</b> This enables or disables COVs for the BACnet connection. Use COV_Enable to enable. Use COV_Disable to disable. (COV_Enable/COV_Disable)	<input type="text" value="COV_Disable"/> <input type="button" value="Submit"/>
bac_virt_nodes	<b>BACnet Virtual Server Nodes</b> Set to NO if the unit is only converting 1 device to BACnet. Set to YES if the unit is converting multiple devices. (No/Yes)	<input type="text" value="No"/> <input type="button" value="Submit"/>

Active profiles	
Nr	Node ID Current profile
<input type="button" value="Add"/>	Parameters

## 2.

Adjust the configuration parameters above for the following options:

### FOR MSTP

Protocol Selector: 1

Adjust BACnet MSTP settings if required:

*network\_nr*

*node\_offset*

*bac\_mac\_addr*

*bac\_baud\_rate*


*bac\_max\_master*

### For IP

Protocol selector: 2

Select **network settings** at the bottom of the page and adjust IP settings

# Configuration

3. Select the  button at the bottom of the page
4. Select unit type from drop down list and enter the Modbus node-ID
  - 10 for ProtoCessor (units with Integrated Controller – EL, RS, GS, ME, DL, NH-EL)
  - 1 for ProtoCarrier (units with Total Controller – GSTC, SETC)



Active profiles


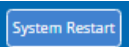
Nr	Node ID	Current profile	Parameters
		BAC_MSTP_GS_SE	
		BAC_MSTP_GS_S	
		BAC_MSTP_MHTI	
		BAC_MSTP_NHR!	
		BAC_MSTP_NHTC	

Submit Cancel

HELP (?) Clear Profiles and Restart System Restart

Diagnostics & Debugging

Powered by FieldServer

5. Select  to accept the unit type selection
6. Select  once configuration is completed

For assistance, please contact Nortec Technical Service at 1-866-NORTEC-1.

All information contained in this Quick Start Guide is for general information purposes only. For complete Nortec installation/operation recommendations for your Nortec equipment, please refer to the installation manual for your specific system, accessories, and components.

All electrical connections must be installed in accordance with local and national electrical code requirements by a licensed electrician.

All water supply and drain line connections must be installed in accordance with local plumbing codes by a licensed plumber.

Nortec does not accept any liability for installations of humidity equipment installed by unqualified personnel or the use of parts/components/equipment that are not authorized or approved by Nortec.



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