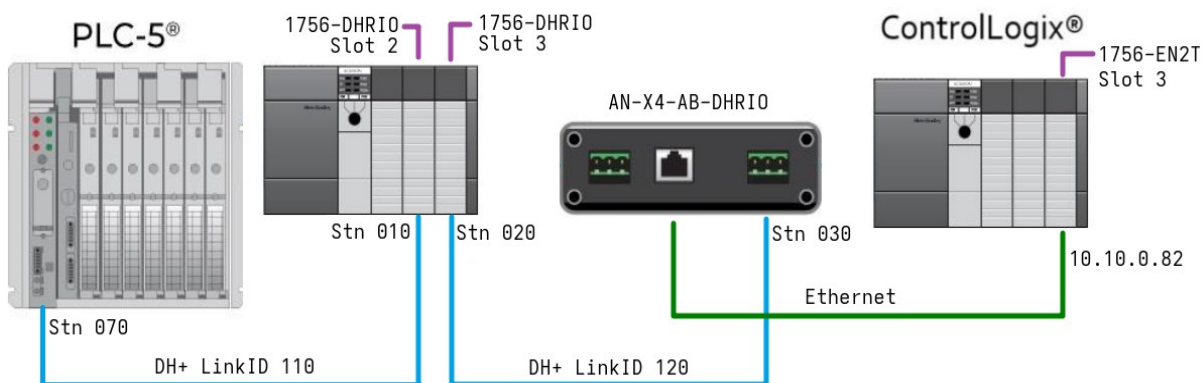


Routing PLC-5 to 1756-DHRIO to 1756-DHRIO to ANX to ControlLogix

AN-X-DHP Firmware
on the
AN-X4-AB-DHRIO Module

Technical Note

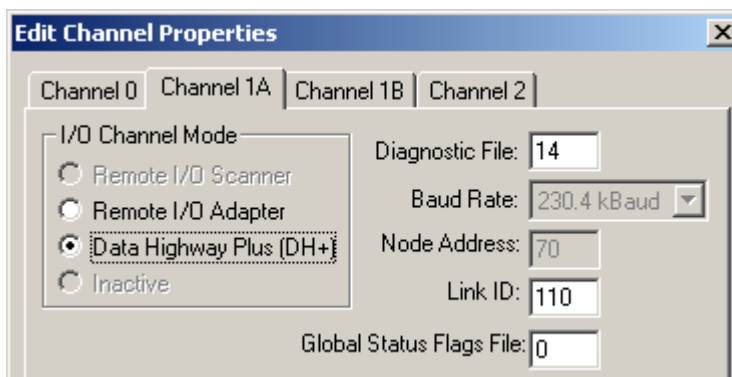


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PLC-5 Setup



Edit Channel Properties

Channel 0 | Channel 1A | Channel 1B | Channel 2

I/O Channel Mode:

- ☐ Remote I/O Scanner
- ☐ Remote I/O Adapter
- ☒ Data Highway Plus (DH+)
- ☐ Inactive

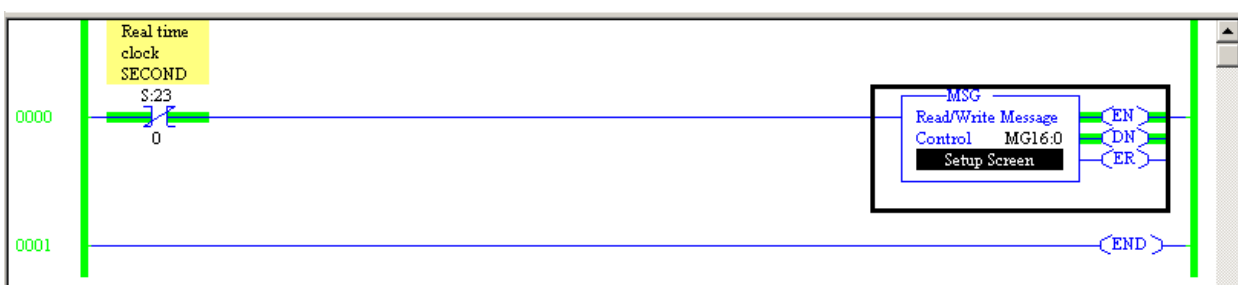
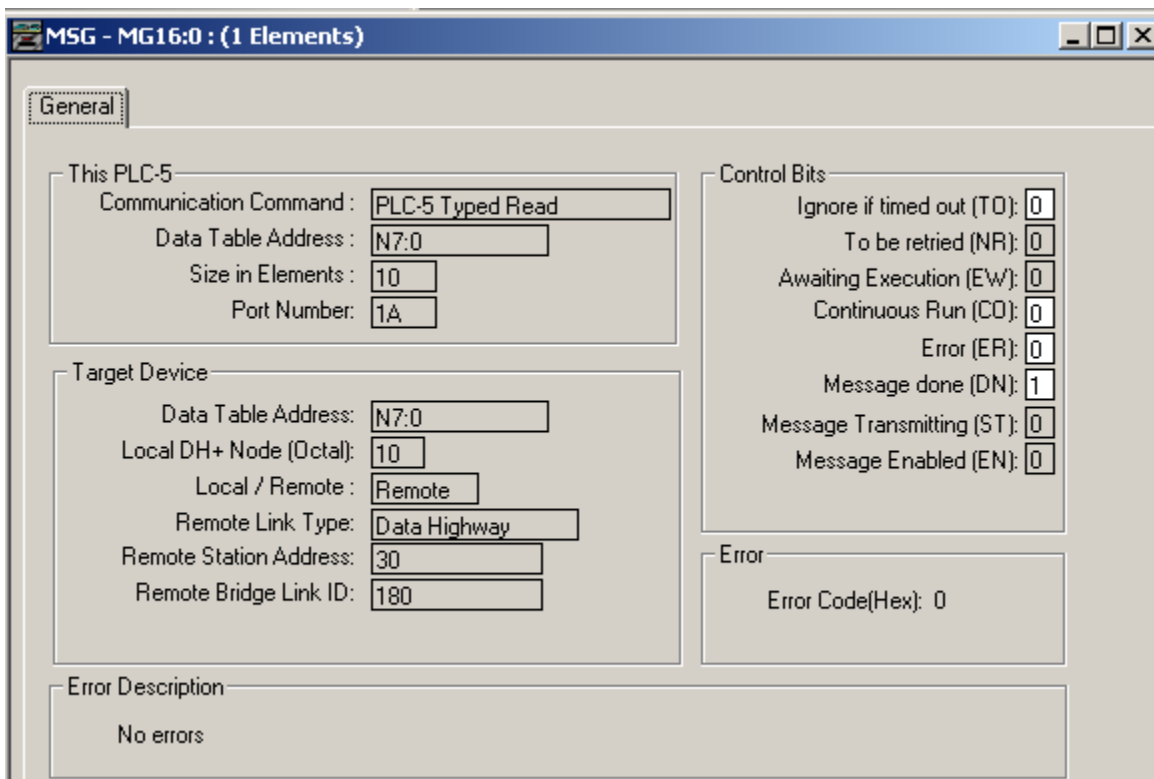
Diagnostic File: 14

Baud Rate: 230.4 kBaud

Node Address: 70

Link ID: 110

Global Status Flags File: 0

MSG - MG16:0 : (1 Elements)

General

This PLC-5

Communication Command: PLC-5 Typed Read

Data Table Address: N7:0

Size in Elements: 10

Port Number: 1A

Target Device

Data Table Address: N7:0

Local DH+ Node (Octal): 10

Local / Remote: Remote

Remote Link Type: Data Highway

Remote Station Address: 30

Remote Bridge Link ID: 180

Control Bits

Ignore if timed out (TO): 0

To be retried (NR): 0

Awaiting Execution (EW): 0

Continuous Run (CO): 0

Error (ER): 0

Message done (DN): 1

Message Transmitting (ST): 0

Message Enabled (EN): 0

Error

Error Code(Hex): 0

Error Description

No errors

1756-DHRIO Setup

Slot 2

AB_ETHIP-1\10.10.0.84\Backplane\2 1756-DHRIO/C Configurati... ? X

General | Routing Table | Channel Configuration

Channel A

 Channel Type: DH+ Restore Defaults

Baud Rate: 230.4 kbps

Node Address: 10

Controller Slot:

Channel B

 Channel Type: <Not Available> Restore Defaults

Baud Rate:

Node Address:

Controller Slot:

Slot 3

AB_ETHIP-1\10.10.0.84\Backplane\3 1756-DHRIO/B Configurati... ? X

General | Routing Table | Channel Configuration

Channel A

 Channel Type: DH+ Restore Defaults

Baud Rate: 57.6 kbps

Node Address: 20

Controller Slot:

Channel B

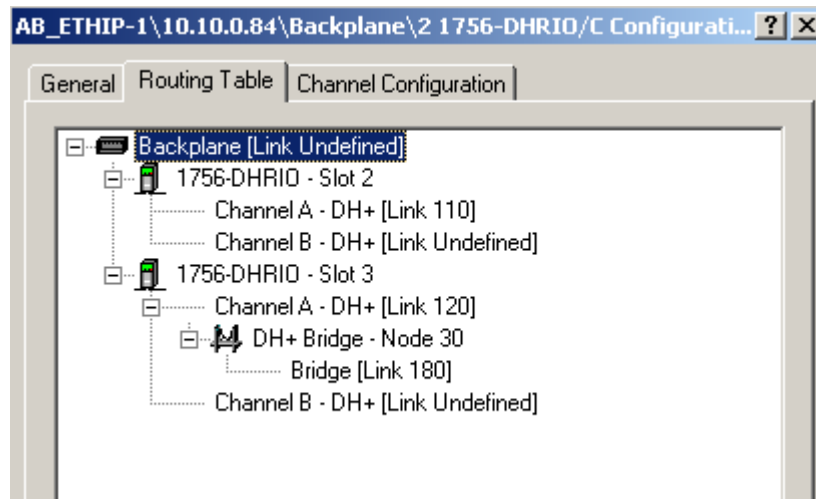
 Channel Type: DH+ Restore Defaults

Baud Rate: 57.6 kbps

Node Address: 21

Controller Slot:

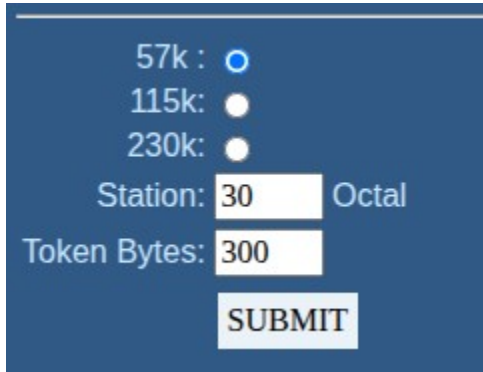
Routing Table



AN-X Setup

***** Note that firmware AN-X4-AB-DHP.v4.16.04.qtf or later is required.**

DH+ Configuration

A screenshot of a web-based configuration interface for DH+ settings. The interface has a dark blue background with white text. It features three radio buttons for selecting a baud rate: '57k' (selected with a blue circle), '115k', and '230k'. Below these is a 'Station' field with the value '30' and a label 'Octal'. Underneath is a 'Token Bytes' field with the value '300'. At the bottom is a white 'SUBMIT' button.

57k : ☒
115k: ☐
230k: ☐
Station: Octal
Token Bytes:

DH+ Router Configuration

; AN-X-DHP DH+ Router

LocalLinkID 120 ; Used by other devices to route to this DH+ segment (1-199)

180 Eth 10.10.0.82 Slot 0 CLX ; Route to CLX processor with PLC-5 compatibility file

ControlLogix Setup

Select “Logic/Map PLC/SLC Messages...”

File Number	Name
7	PLC5_N7

PLC 2 Mapping

Tag Name :

OK
Cancel
Help

Delete Map



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Results

Data in ControlLogix

Name	Value	Force	Max	Style	Data Type	Description
PLC5_N7	{...}	{...}		Decimal	INT[1000]	
PLC5_N7[0]	70			Decimal	INT	
PLC5_N7[1]	71			Decimal	INT	
PLC5_N7[2]	72			Decimal	INT	
PLC5_N7[3]	73			Decimal	INT	
PLC5_N7[4]	74			Decimal	INT	
PLC5_N7[5]	75			Decimal	INT	
PLC5_N7[6]	76			Decimal	INT	
PLC5_N7[7]	77			Decimal	INT	
PLC5_N7[8]	78			Decimal	INT	
PLC5_N7[9]	79			Decimal	INT	
PLC5_N7[10]	80			Decimal	INT	
PLC5_N7[11]	82			Decimal	INT	
PLC5_N7[12]	0			Decimal	INT	
PLC5_N7[13]	0			Decimal	INT	

Data Read Into PLC-5

Offset	0	1	2	3	4	5	6	7	8	9
N7:0	70	71	72	73	74	75	76	77	78	79
N7:10	0	0	0	0	0	0	0	0	0	0
N7:20	0	0	0	0	0	0	0	0	0	0
N7:30	0	0	0	0	0	0	0	0	0	0
N7:40	0	0	0	0	0	0	0	0	0	0
N7:50	0	0	0	0	0	0	0	0	0	0
N7:60	0	0	0	0	0	0	0	0	0	0
N7:70	0	0	0	0	0	0	0	0	0	0
N7:80	0	0	0	0	0	0	0	0	0	0
N7:90	0	0	0	0	0	0	0	0	0	0
N7:100	0	0	0	0	0	0	0	0	0	0

N7:0 Radix: Decimal
 Symbol: Columns: 10
 Desc:

N7 Properties Usage Help