Application Node



Using AVG Encoders with ControlLogix through Ethernet TCP/IP

This document will serve as a guide explaining how to use our encoders with ControlLogix units through Ethernet TCP/IP. To configure a ControlLogix controller to communicate with an AVG Encoder, please follow these steps:

1. Configure a generic Ethernet module. Open the project in RSLogix 5000 but remain off-line.

RSLogix	5000 - T	SM_Con	trolLogi	ix [1756-L55]*
File Edit	View	Search	Logic	Communications
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Offline	1]. 🗏 R	UN	
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2. If not already done, configure the ControlLogix with the Ethernet module you will be using. Then, navigate to the I/O configuration and right-click on **Ethernet**.



3. Select **New Module** then arrow down to the **Ethernet-Module Generic Ethernet Module** entry.

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Module		Description	Vendor			
	DataMan 500 Ser	ID Reader	Cognex Cor			
	DataMan 8000 Se ID Reader					
	- Drivelogix5730 Et 10/100 Mbps Ethernet Port on DriveLogix5730					
	El Plus Electronic Overload Relay Communications Interface					
	- ETHERNET-BRID Generic EtherNet/IP CIP Bridge					
	ETHERNET-MO	Generic Ethernet Module	Allen-Bradle			
	EtherNet/IP	SoftLogix5800 EtherNet/IP	Allen-Bradle			
	In-Sight 1700 Ser Vision System					
	In-Sight 3400 Ser Vision System					
	In-Sight 5000 Ser Vision System					
In-Sight Micro Se Vision System						
	INIDE60 FIL	CI- TI	M-441-1 T-1			
		Find	Add Favorite			
By Ca	ategory By Ve	ndor Favorites				

- 4. Select OK.
- 5. In the Module Properties dialog box, select a name for the Ethernet module and the I.P address of the Encoder. Make sure the Comm Format and Connection Parameters are set exactly as shown:

Module Properties: Control_Logix (ETHERNET-MODULE 1.1)								
General Connection Module Info								
Type: Vendor:	ETHERNET-MODULE Generic Ethernet Module Allen-Bradley							
Parent: Na <u>m</u> e:	Encoder	Connection Para	ameters Assembly	Ciner				
Descri <u>p</u> tion:	·	<u>I</u> nput:	Instance:	5ize:	÷ (16-bit)			
Comm <u>F</u> ormat	Data - INT	O <u>u</u> tput:	150	2	는 (16-bit) - (0 bit)			
Address / H	lost Name ess: 10 . 1 . 200 . 210	<u>S</u> tatus Input:			• (o-Dit)			
⊖ <u>H</u> ost Na	ime:	S <u>t</u> atus Output:						
Status: Offline	OK	Cancel	Apply		Help			

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- 6. After clicking **OK**, RSLogix will create the tags to be used to communicate with the Encoder. In the example above, the tags generated will be: Encoder:C, Encoder:I and Encoder:O. Please disregard all but Encoder:I.
- Encoder: I will have two distinct tags: Encoder: I.Data[0] and Encoder: I.Data[1]. These will relate to the Encoder Position information and Heartbeat Counter, respectively.