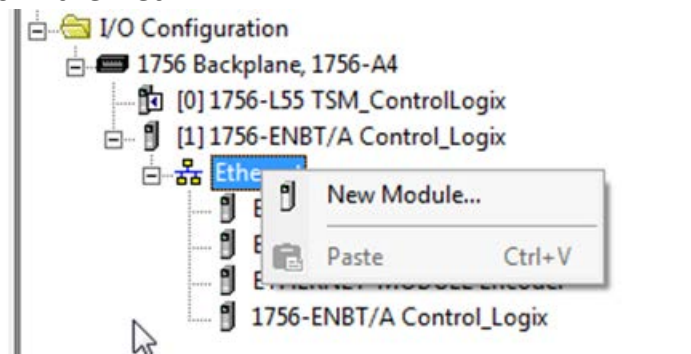# Application Node

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.
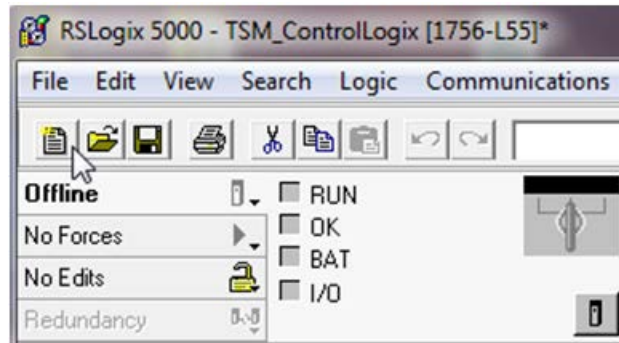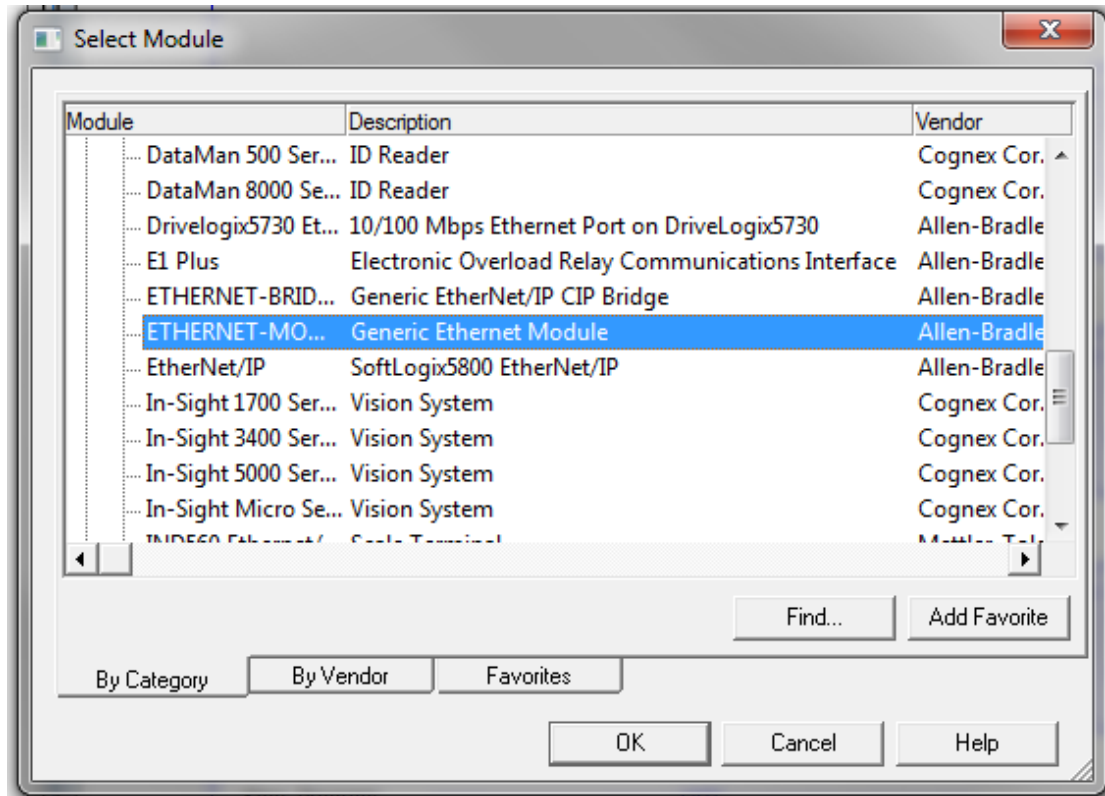

2. If not already done, configure the ControlLogix with the Ethernet module you will be using. Then, navigate to the I/O configuration and right-click on **Ethernet**.
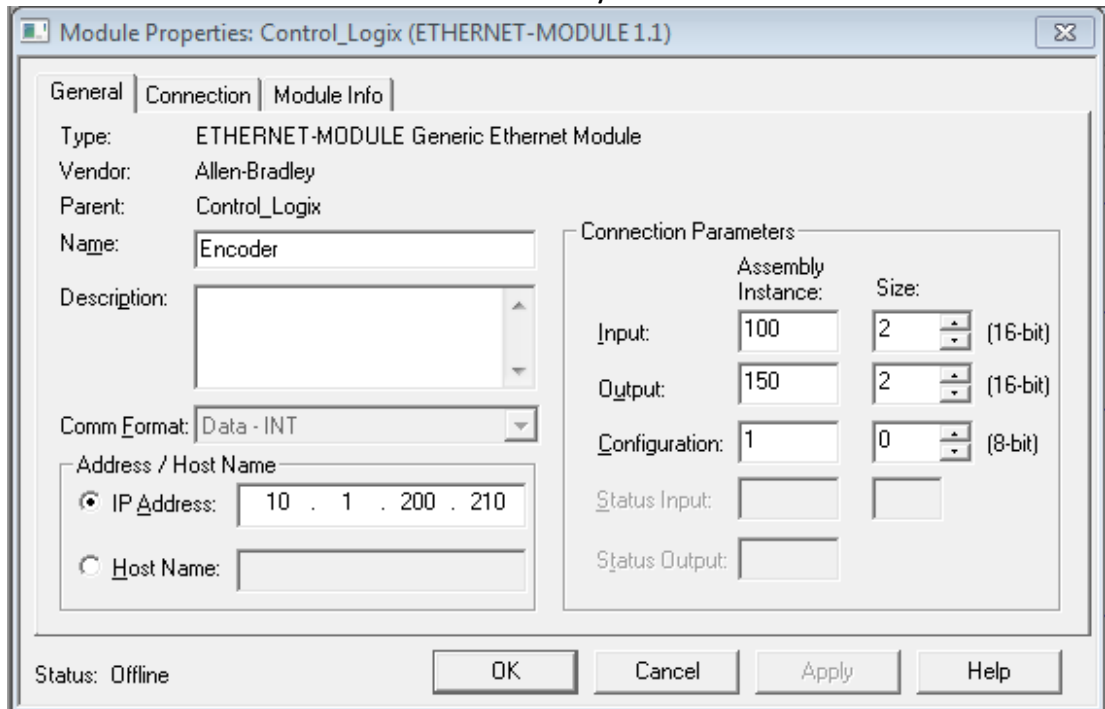

3. Select **New Module** then arrow down to the **Ethernet-Module Generic Ethernet Module** entry.

Application Node

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:

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.

7. 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.