Advantech ADAM Sample Project

# Overview

This sample project is typical of communications with an Advantech ADAM module. This particular project is for connecting to an ADAM-4022T Dual Loop PID controller either directly via RS232/485 or through an ADAM-4577 Serial to Ethernet converter.

# Communications Settings

## Connecting via a Serial to Ethernet Converter

If you are using an ADAM-4577 then it will be configured with the correct serial parameters and you will assign it a network ID and TCP Port number. The UCON Profile will be set to use Ethernet Encapsulation in the channel properties and in the Device Properties the IP of the ADAM-4577 and the Port number that was specified will be entered. The ADAM-4022T will have a unique module address. The Device property for Device ID will need to be set to reflect this.

Other Serial to Ethernet converters will be used in the same way as the ADAM converters.

## Connecting via a Serial Port or USB Serial Port

When connecting directly to the ADAM-4022T module you will set the server channel properties to the parameters of the ADAM serial port. USB Serial ports will be transparent to us would still need the parameters set. As with the Ethernet connection you will need to set the Device ID to match the Module address.

# Addressing

There are 2 versions of this project a Light version and a Full version. Both projects make use of the ADAM protocols ability to read block of data rather than one item at a time. These allows for a much faster poll cycle of the device.

## Light Project

This project has only 10 tags in it so that it may be loaded when the UCON is in Demo mode.

## Full Project

This project references all of the data in the module, a total of 168 tags.

# Summary

This project should serve as an example of how communications can be configured with a more complex yet simple protocol.