

Advantech AE Technical Share Document

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Category	<input type="checkbox"/> FAQ <input checked="" type="checkbox"/> SOP	Related OS	N/A
Abstract	ADAM-40XX, ADAM-41XX, ADAM-60XX and ADAM-62XX_How to use ADAM with LABView		
Keyword	ADAM-40XX,ADAM-41XX,ADAM-60XX, ADAM-62XX, LABView.		
Related Product	ADAM-40XX, ADAM-41XX, ADAM-60XX and ADAM-62XX		

■ Problem Description:

This documentation shows how to polling the I/O status of ADAM with LABView

■ Brief Solution - Step by Step:

1. Download Modbus Library
2. Install Modbus Library to LABView
3. Find Modbus VI in User Libraries
4. Use Labview Modbus Examples

[Steps]

Download Modbus Library

In order to use Modbus RTU/TCP protocol, user need to download LABview Modbus Library, which provided by National Instruments.

Please download “nimodbus121.zip” from below link.

<http://ftp.ni.com/pub/devzone/epd/nimodbus121.zip>

MODBUS Library for LabVIEW

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概觀

The MODBUS library is a free, downloadable set of Virtual Instruments (VIs) that provide Modbus communication from any standard Ethernet or serial port. The LabVIEW library implements the Modbus protocol in software and offers both master and slave functionality. Using the Modbus library, Programmable Automation Controllers (PACs) can communicate with gateway devices that provide connectivity to a wide variety of industrial networks, such as PROFIBUS, EthernetIP, and DeviceNet.

下載

檔案名稱: nimodbus121.zip需求: [View](#)

Version 1.2 (ni_modbus_1_2.zip) of the MODBUS LabVIEW Library is backward compatible with previous versions of the library. It adds a set of polymorphic VIs that make it easier to use MODBUS commands. These new VIs are also fully documented with a help file. Comments have also been added to the

Install Modbus Library to LABView

1. Unzip nimodbus121.zip.
 2. Open readme.html, and follow the steps to install Modbus library to LABView.
- (In our example, we choose 86 folder, it's the latest version)



Installing NI-MODBUS Library

In order to use the Library in LabVIEW, please follow these steps:

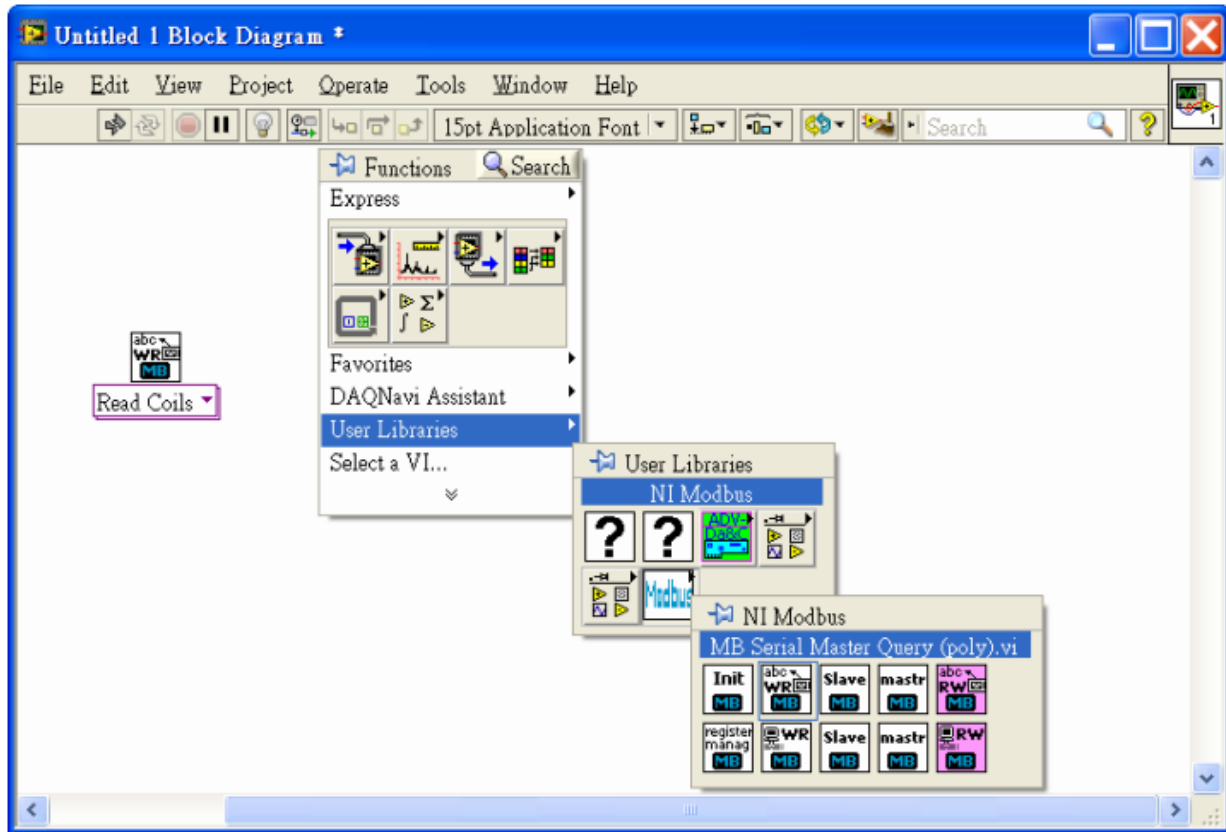
- Close LabVIEW.
- If you have version NI-MODBUS Library 1.1 on your system, it is recommended to uninstall it by going to Control Panel -> Add Remove Programs -> National Instruments Software and select NI Modbus 1.1 from the list.
- Copy NI Modbus.lib from the ##\vi.lib folder to the LabVIEW_ROOT\vi.lib directory where ## is your LabVIEW version (example 86 for 8.6) and is the root folder where you installed LabVIEW.
- Copy lvmodbus.chm and lvmodbus.txt from ##\help to the LabVIEW_ROOT\help directory.
- Copy nimodbus.mnu from ##\user.lib to the LabVIEW_ROOT\user.lib directory.
- Restart LabVIEW. You should see the NI Modbus palette in the User Libraries palette.

To Uninstall the Library, remove all the files copied from the previous steps.

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Find Modbus VI in User Libraries

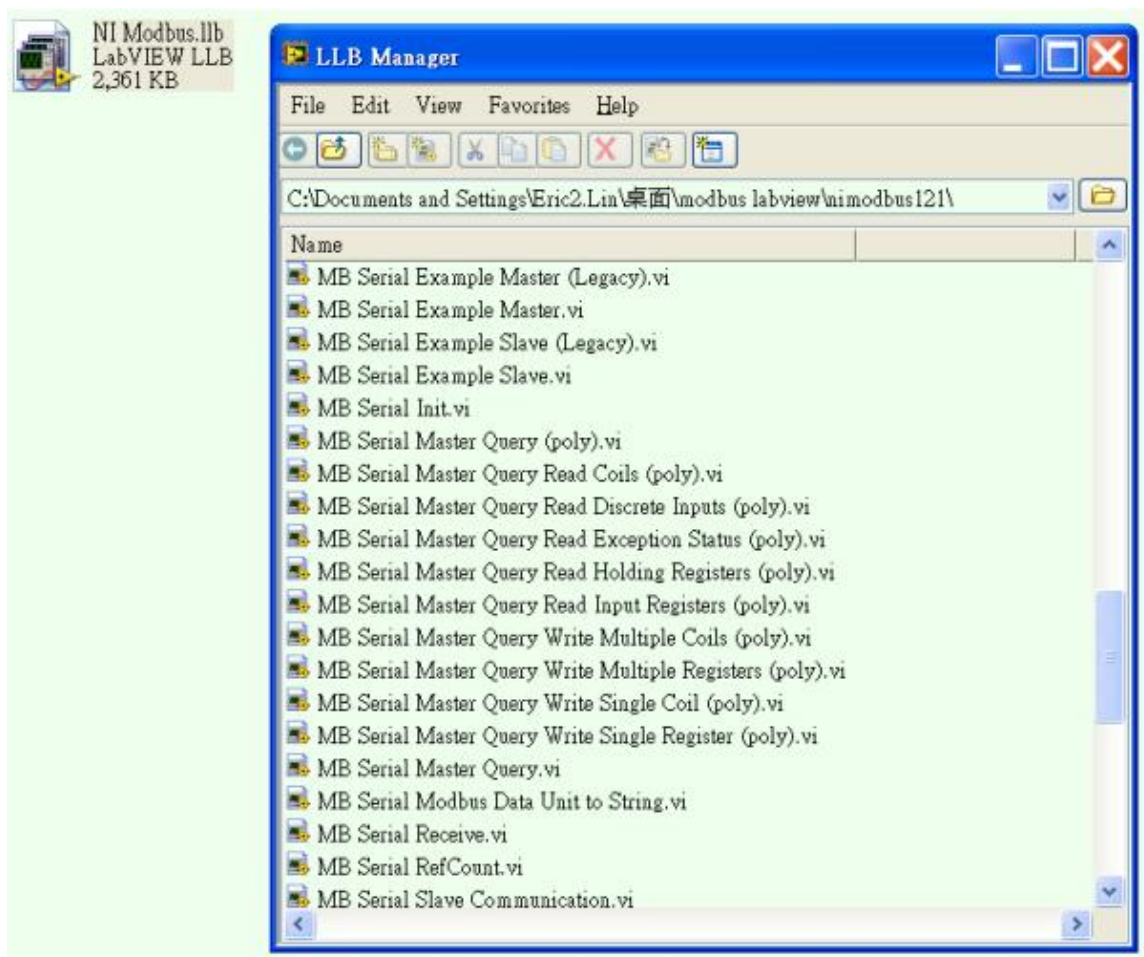
After installed Modbus Library to LABVIEW, user can find Modbus VI in User Libraries, and start to edit their own program.



Use LABView Modbus Examples

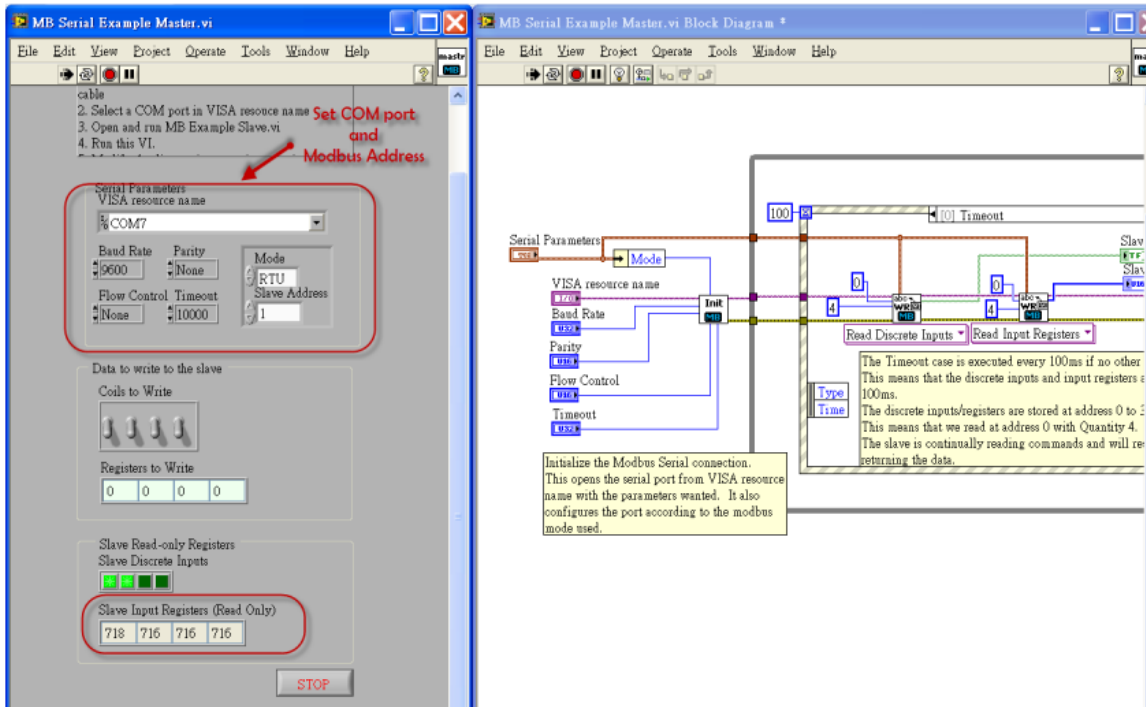
LABView Modbus Library provides many Modbus examples.

To find those examples, user can open NI Modbus.llb in nimodbus121.



Example: Read ADAM-4022T by Modbus RTU

MB Serial Example Master.vi was chosen to read AI value of ADAM-4022T by Modbus RTU. Setup correct parameters according your computer/device.



Example: Write ADAM-6024 by Modbus TCP

MB Ethernet Example Master.vi was chosen to write DO value of ADAM-6024 by Modbus TCP.

Setup correct parameters according your computer/device.

