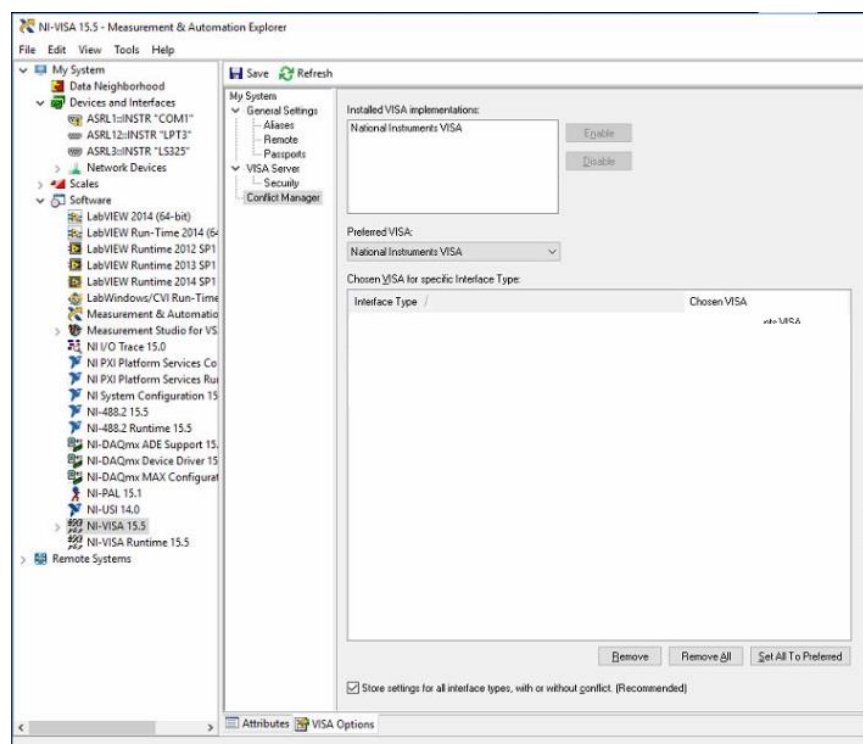


ADLINK Technical Document

Abstract	How to Access External Instrument In NI MAX & LabVIEW via GPIB Adaptor		
OS	Windows		
Keyword	GPIB		
Related Products	USB-3488A, LPCI-3488A, LPCle-3488A		
Date	2021-10-29	No.	

- Issue Details:

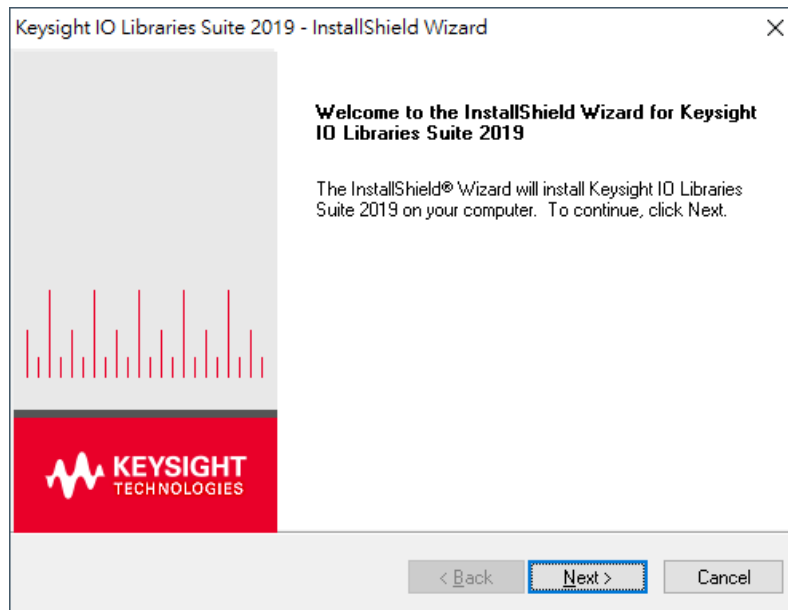
After correctly installing the ADLINK GPIB driver packages and confirming the connection by using ADLINK's GPIB utility, the ADLINK GPIB adapter doesn't display in the NI MAX device category. There is also no way to access connected instruments through NI LabVIEW without assigning a VISA resource name.



- Solution:

Step 1: Download Keysight IO Library

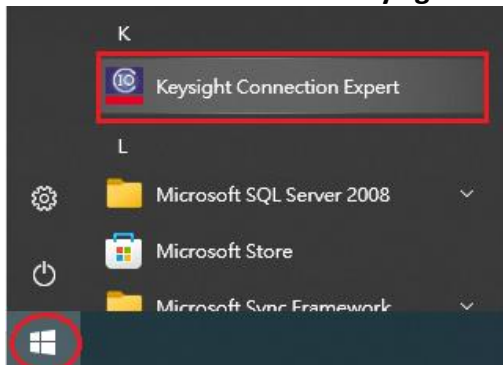
Download and install the latest **Keysight IO Libraries Suite** on your system.



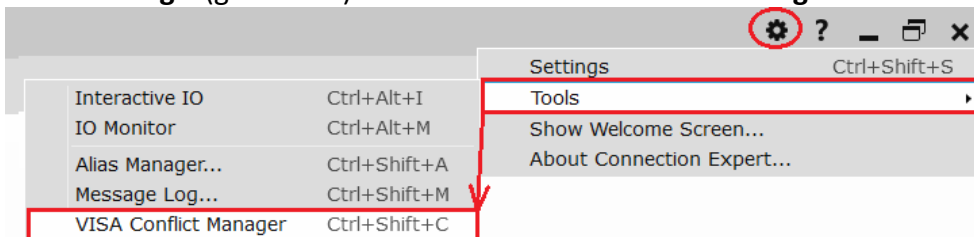
Step 2: VISA Conflict Manager

Configure the VISA conflict manager settings.

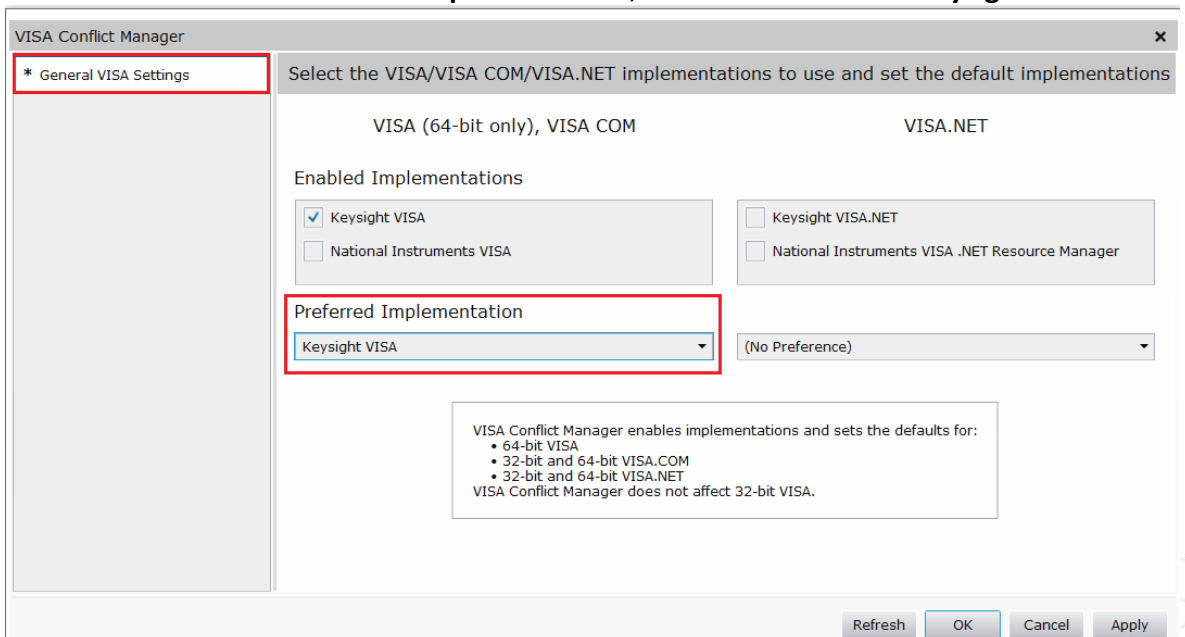
- a. Launch **Keysight** **Connection** **Expert**



- b. Click **Settings** (gear icon) > **Tools** > **VISA Conflict Manager** > **General VISA Settings**

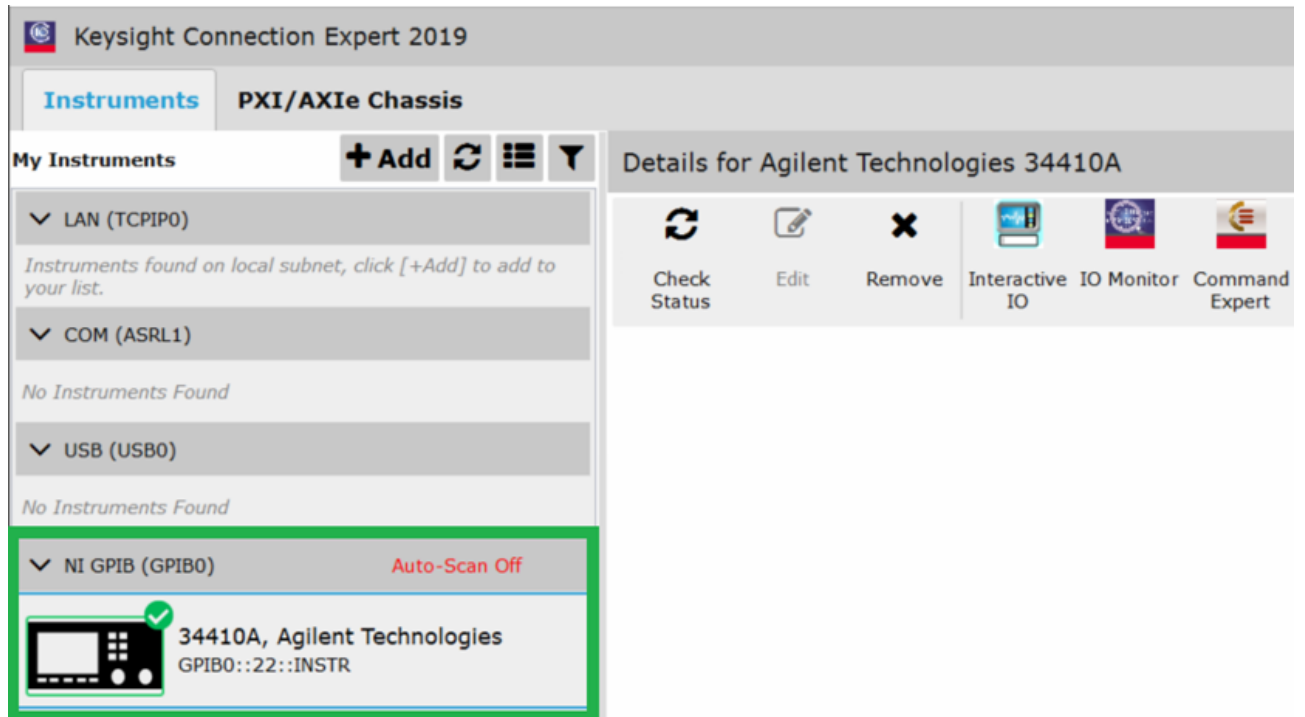


- c. Under **Preferred Implementation**, select **Keysight VISA**



Step 3: Automatic Scan

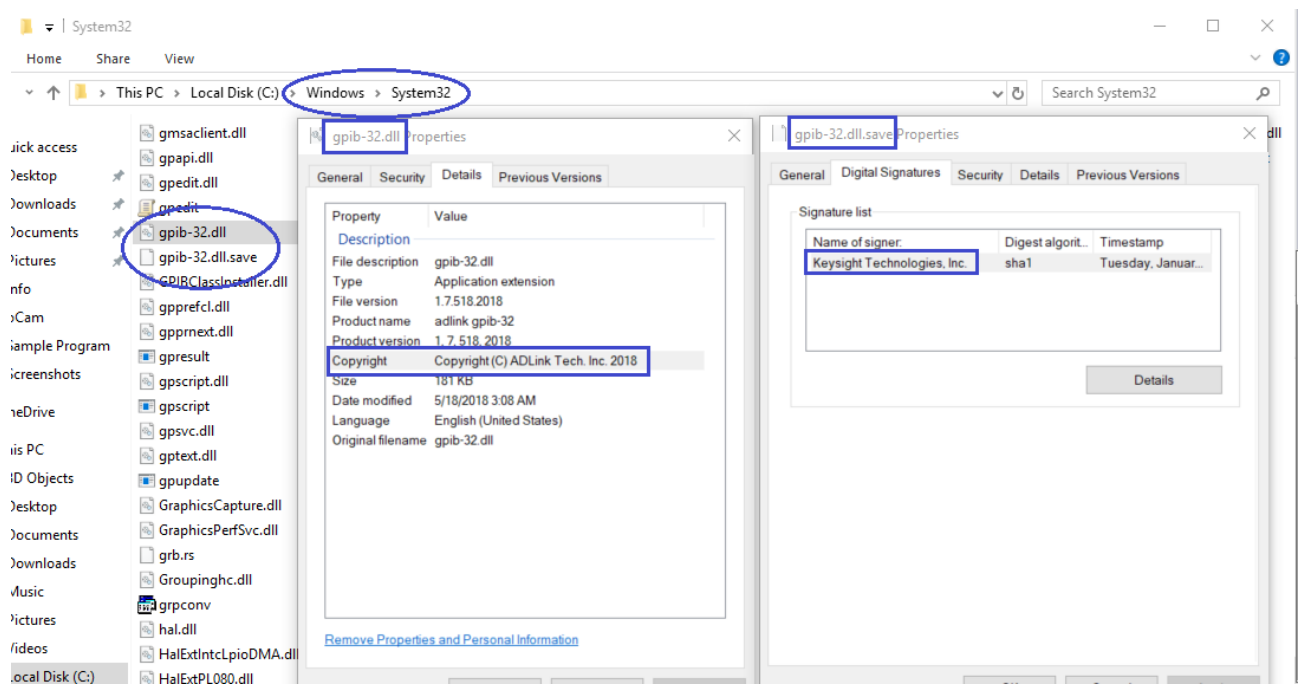
Keysight I/O Library scans all the interfaces and automatically finds and addresses the device.



Step 4: Manual Setup

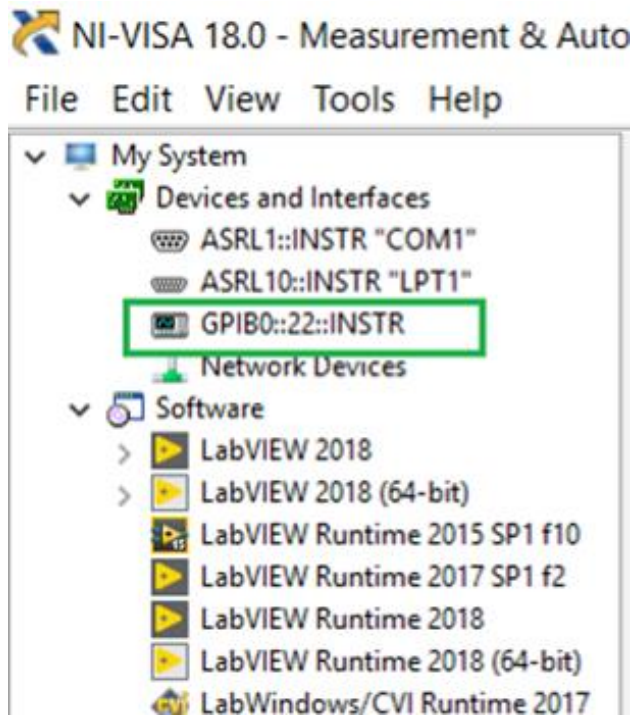
If no device displays in the Keysight I/O Library devices deployment area, do the following:

- Go to the **C:\Windows\System32** folder, find GPIB-32.DLL, then right-click to check if the Copyright belongs to ADLINK.
- If not, uninstall and reinstall the ADLINK GPIB driver.



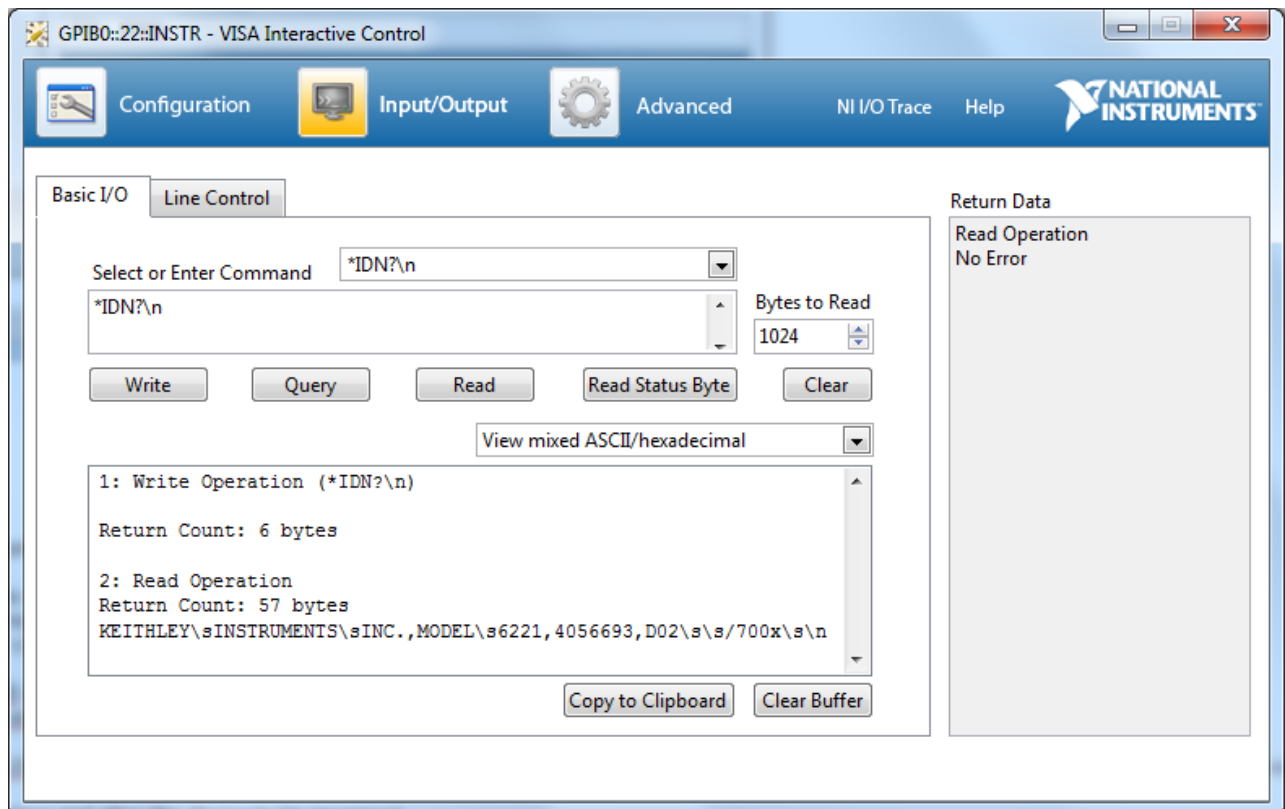
Step 5: Confirm Successful Connection

Launch NI MAX. Instrument devices should now show in NI MAX.



Step 6: A quick test under VISA's interactive control interface

Use the NI VISA Interactive Control to access and link to the device and confirm all the top-down communication is working correctly.



Step 7: Download dedicated LabVIEW sample and have a quick test

Download the dedicated LabVIEW sample for a specific instrument (DMM 34410A in the example below). Then start LabVIEW sample VI and apply the matched VISA resource name ahead of performing sample VIs.

[Home](#) | [Software Details](#)

34410A, 34411A Digital Multimeter LabVIEW Instrument Drivers

[Current Version](#) [Previous Versions](#)

Release Date	Version	Version Description
2006-01-01	1.1	LabVIEW Version 1.1 for 34410A, 34411A

How to Download

- [See Readme File](#)

How to Install

- [See Readme File](#)

Licensing

- Does Not Require a License

Supporting Documentation

- [Readme for LabVIEW Version 1.1 for 34410A, 34411A](#)

[Download](#)**Installs on:** PC

Prerequisites

- [See Readme File](#)

Supported Instruments

- 34410A, 34411A



Serial Port (9600,7,E,2)

VISA Resource Name (GPIB::22) Baud Rate (5:9600) Parity and Data Bits (1:7,E)

GPIB::22 9600 5 Parity:Even, 7 Bits 1

Hewlett Packard 34401A Multimeter

0.000

Range/Resolution (T:Auto)

Auto

Manual

Function (0:V DC) **Samples** (1)

DC Voltage 0 1

Trigger Source (0:Internal) **Timeout** (10000 ms) **Manual Delay** (0 sec)

Internal 0 10000 0.00000

Manual Range (1.00)

1.00

Manual Res. (1:5.5 Digits)

5.5 Digits 1

error in (no error)

status code

✓ 0

source

error out

status code

✓ 0

source