

# Setting up a new station for the SoftPlot Automated Phase Application

# Installing the Keysight GPIB drivers

This install assumes we are using the Keysight 82357B USB/GPIB interface



# Install the latest Keysight IO Libraries Suite from the web


82357B USB/GPIB Interface High-Speed USB 2.0

keysight.com/en/pd-851808-pn-82357B/usb-gpib-interface-high-speed-usb-20?cc=US&lc=eng

KEYSIGHT TECHNOLOGIES

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Images

## 82357B USB/GPIB Interface High-Speed USB 2.0

Sold By: Keysight - Usually arrives in 6 weeks  
Authorized Sales Partners - [Check availability](#)

[View Data Sheet](#)  
[Visit Technical Support](#)

Starting From **US\$ 594**

Typical Configuration ⓘ

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**Prices for: United States**  
\* Prices are subject to change without notice. Prices shown are Manufacturer's Suggested Retail Prices (MSRP). Prices shown are exclusive of taxes.

**Product Support Center**

- [Technical Support](#)  
manuals, drivers, application notes, firmware, software, ...
- [Parts](#)
- [Repair & Calibration Services](#)

Overview & FeaturesOptions & AccessoriesDocument Library

### Key Features & Specifications

- Easy connection - plug-and-play interface
- USB 2.0 interface (USB 1.1 compatible) and IEEE-488 interface (connect up to 14 GPIB instruments)
- High-speed - transfer over 1.15MB/sec
- Parallel Polling (check response of up to 8 devices at one single poll)
- Standard industry libraries with Keysight IO Libraries Suite

### Description

The Keysight 82357B USB/GPIB Interface provides a direct connection from a USB port on your laptop or desktop PC to GPIB instruments. There are no switches to set, no PC cards to install, and no external power supplies required. Getting connected has never been easier.

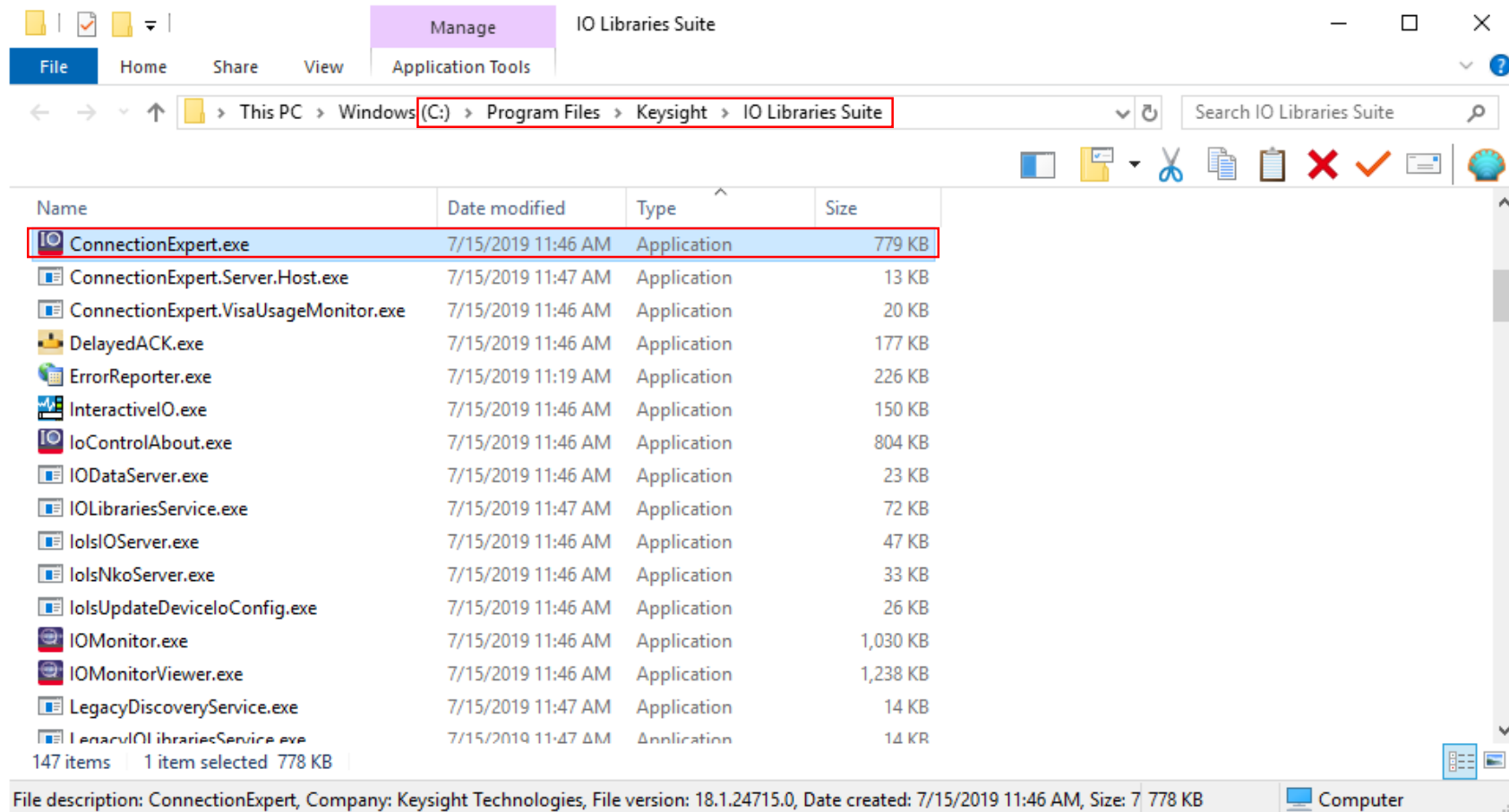
**Want to see more?** [See Video Demo](#)

To quickly establish instrument connection on a PC, download and install [Keysight IO Libraries Suite](#)

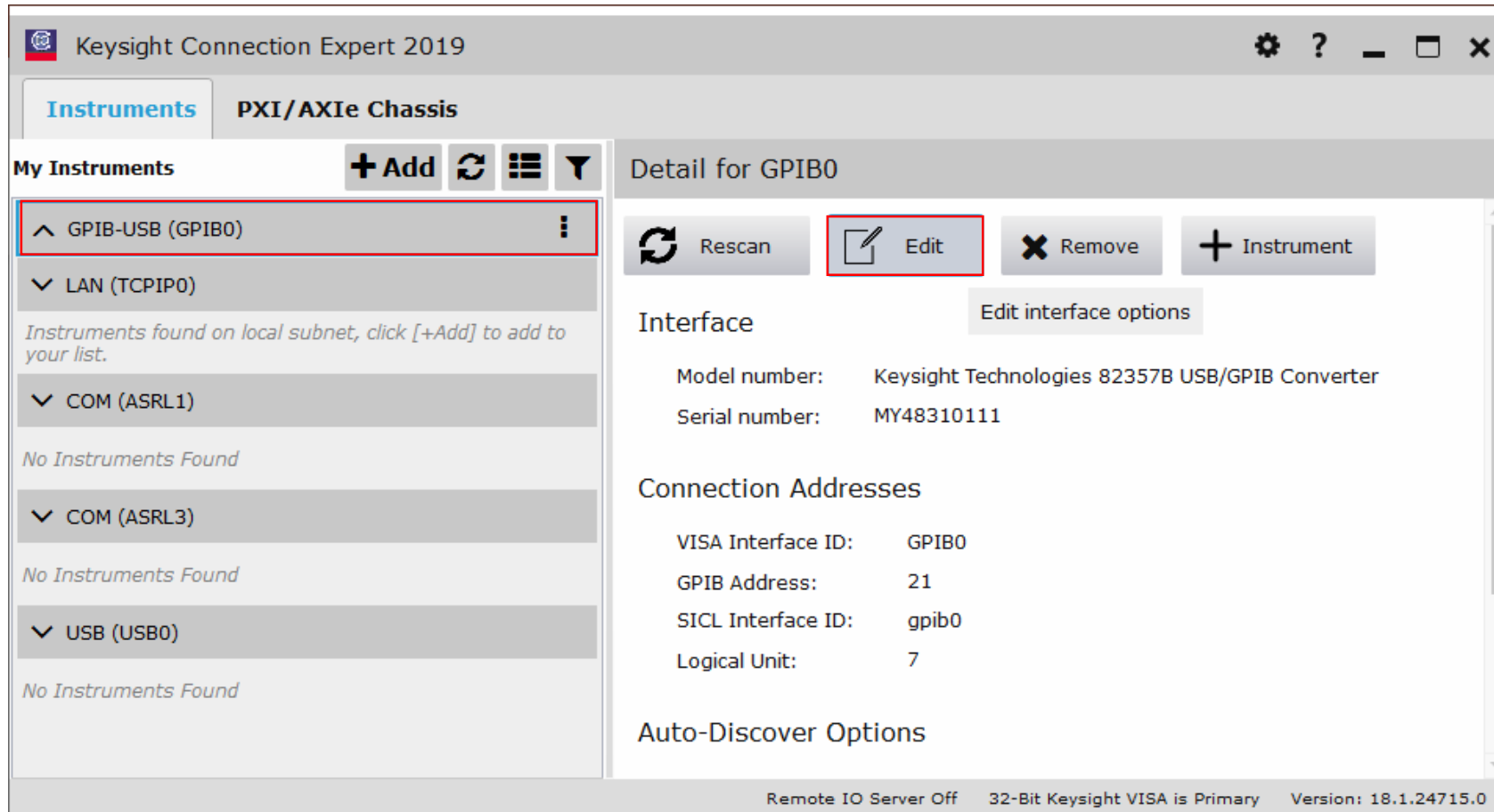
Automate and perform data analysis on your test system easily with [Keysight VEE Pro](#)

Counterfeits of this or closely related products have been found in the market. To ensure you are purchasing an authentic Keysight product with the quality and performance you expect,

# Run the Connection Expert



# Edit the settings for the GPIB-USB interface



# Configure the adapter to work with SoftPlot and the VNA Utility

Edit settings for an 82357 USB/GPIB interface

Interface

Model number: Keysight Technologies 82357B USB/GPIB Converter  
Serial number: MY48310111

Specify Connection Addresses:

VISA Interface ID: GPIB0  
GPIB Address: 21  
SICL Interface ID: gpib0  
Logical Unit: 7

Auto-Discover Options

☒ Auto-Discover Instruments Connected to This Interface

Auto-Scan Options

☐ Do Not Auto-Scan For Instruments On This Interface  
☐ Always Auto-Scan For Instruments On This Interface  
☒ Auto-Scan Unless a Problem Is Detected  
*Auto-Scan is enabled by default*

☒ Keysight 488 Properties

OK Cancel

Click arrow

Check box  
(provides more reliable  
comm. w/ HP8720)

Uncheck box  
(some binary trace read-  
backs will appear as EOS)

Edit settings for an 82357 USB/GPIB interface

Keysight 488 Properties

Enable Keysight GPIB Cards:

Enabling this option allows Keysight GPIB cards to work in NI-488.2-compatible programs.  
This can cause valid or unwarranted error messages from National Instruments software.

☒ Enable Keysight GPIB cards for 488 programs

Configure Termination Settings:

EOS character: 0

☐ Set EOI with the Last Character  
☒ Set EOI with the EOS Character  
☐ Terminate Read on the EOS Character  
☒ 8-Bit EOS Compare

Configure Common Settings:

I/O Timeout: 13 (10 sec)  
Parallel Poll Duration: 0 (2 usec)  
Bus Timing: 500 nsec

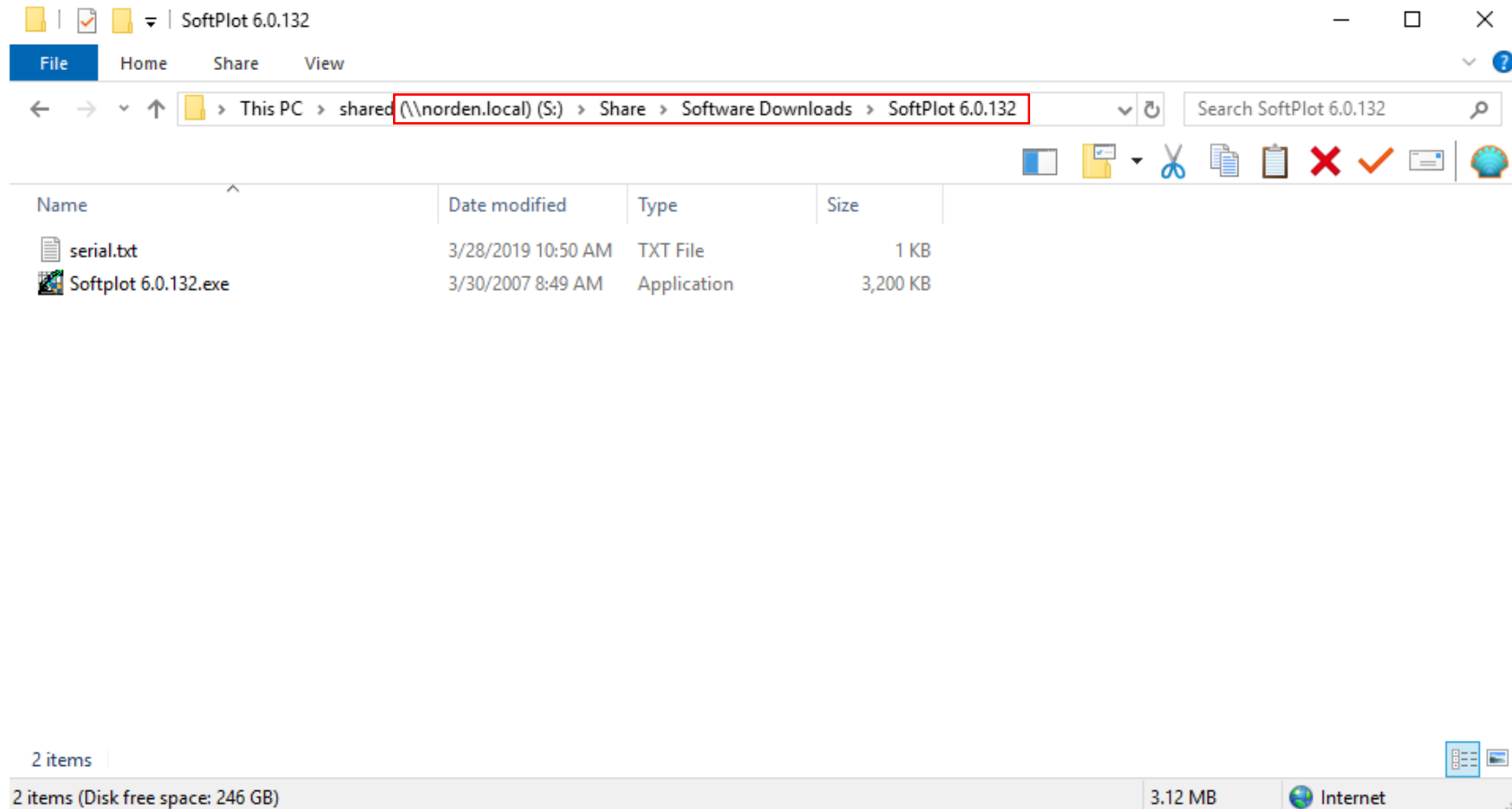
☒ Automatic Serial Poll  
☐ Assert REN when System Controller

OK Cancel

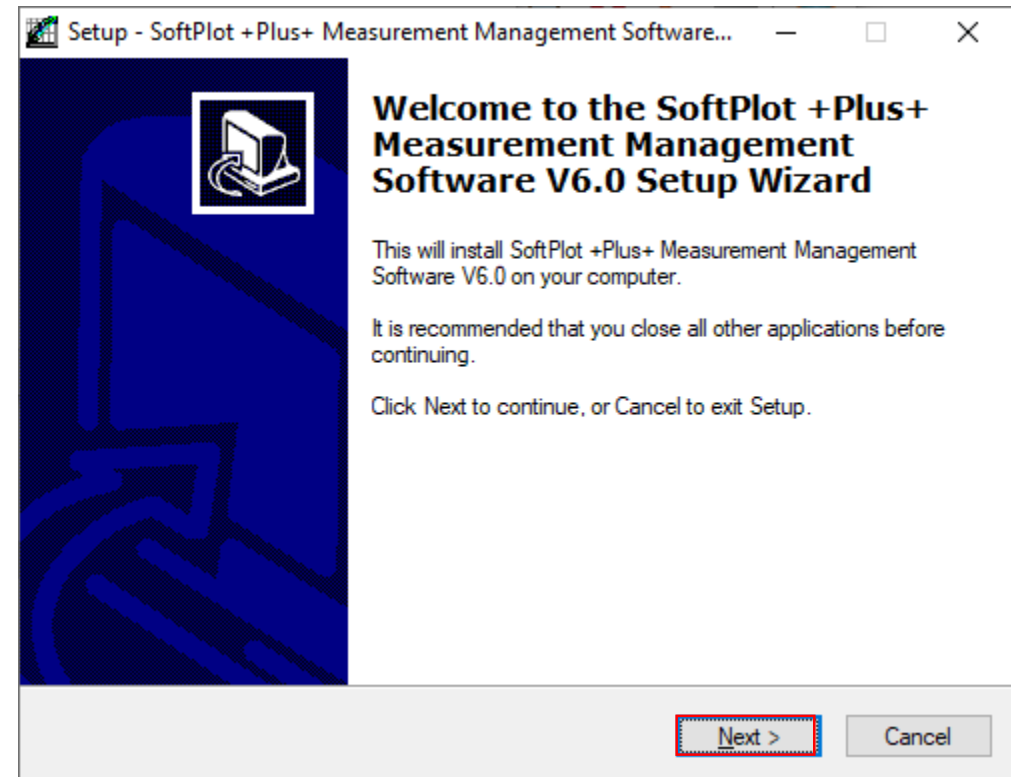
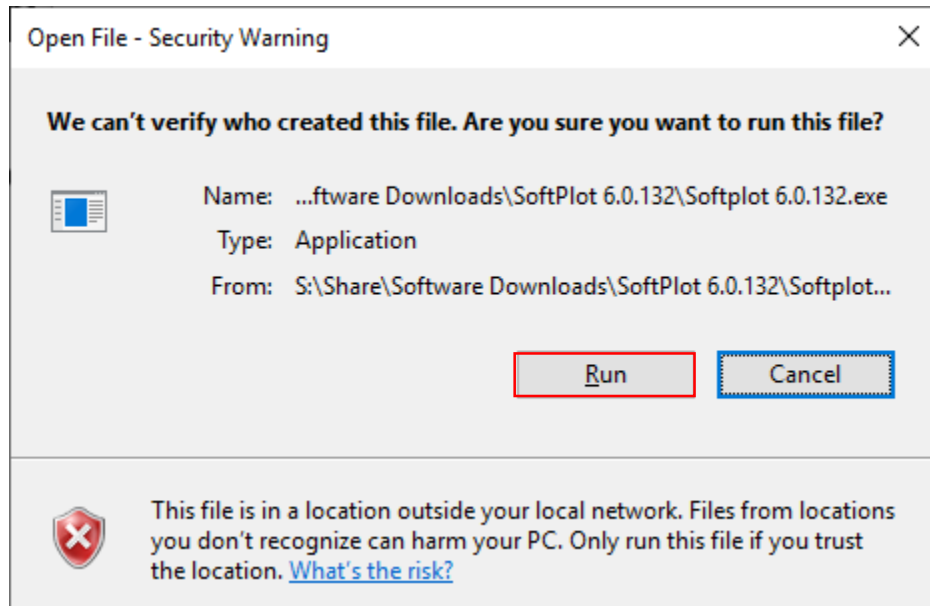
# Installing SoftPlot



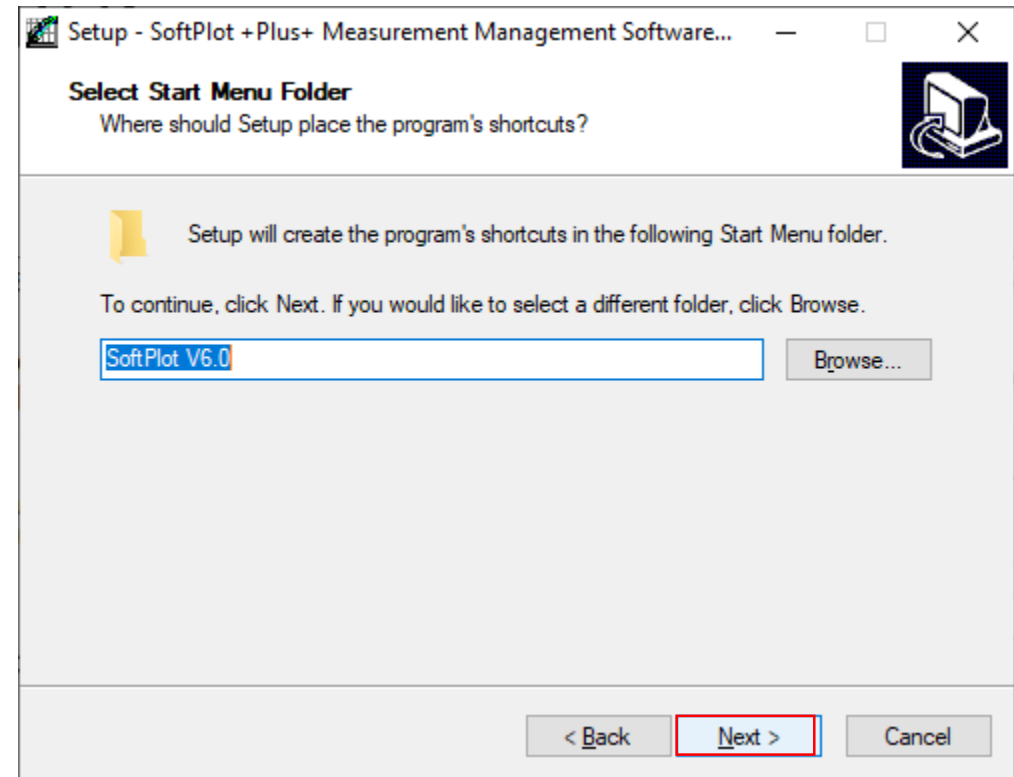
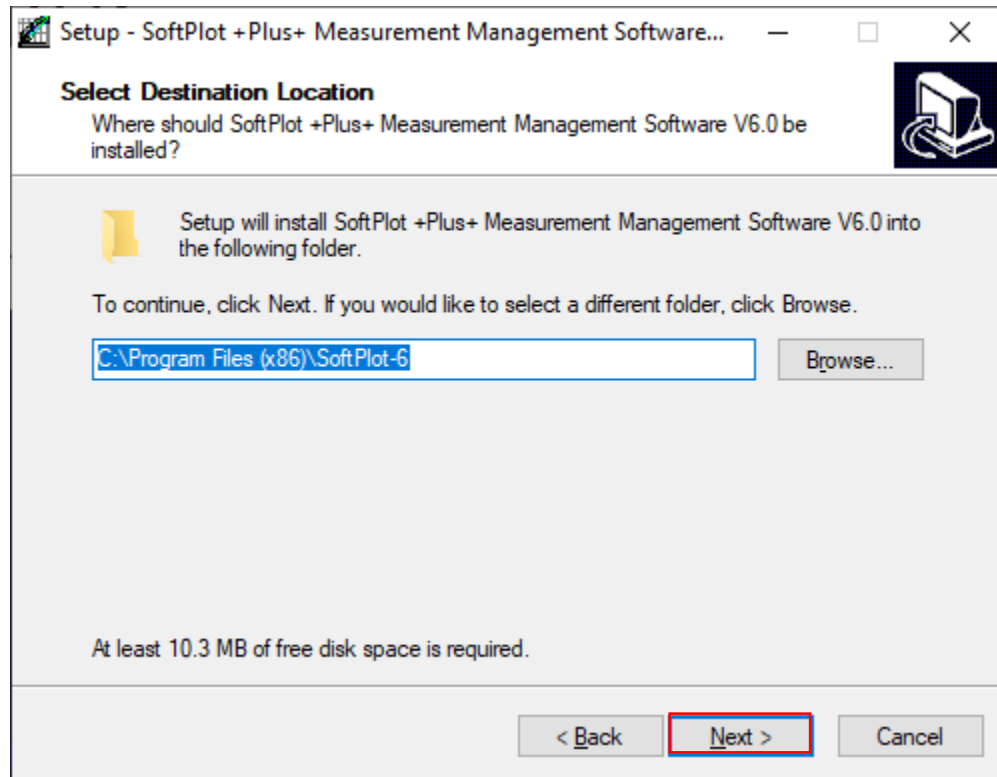
# Find the SoftPlot installation directory



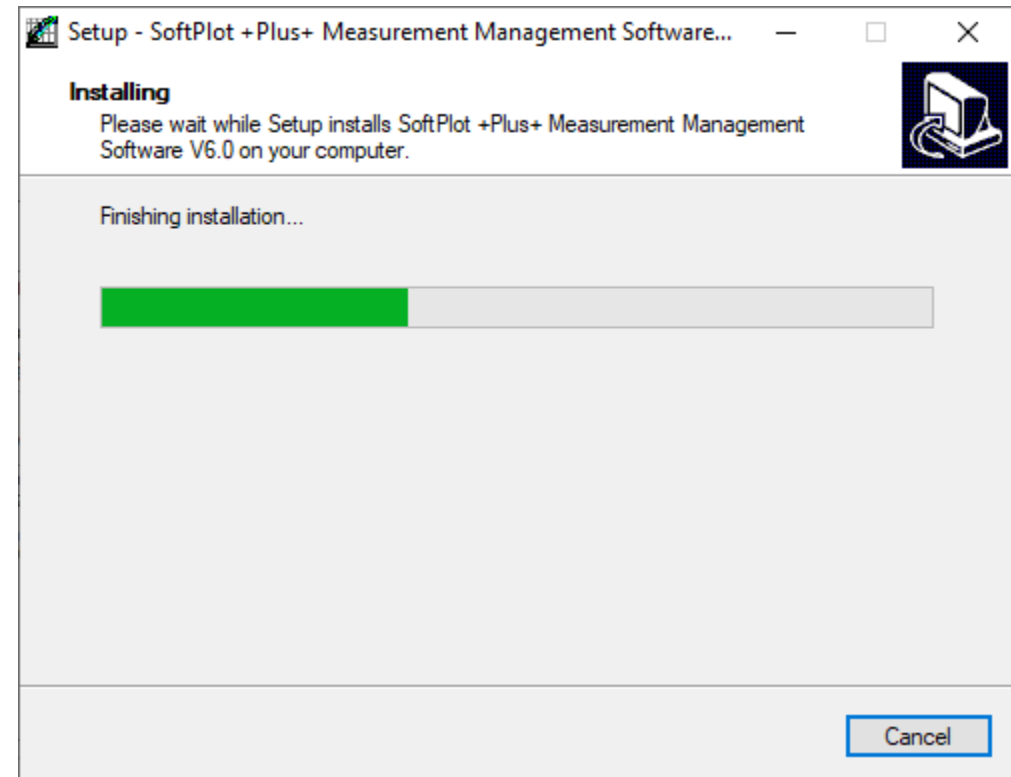
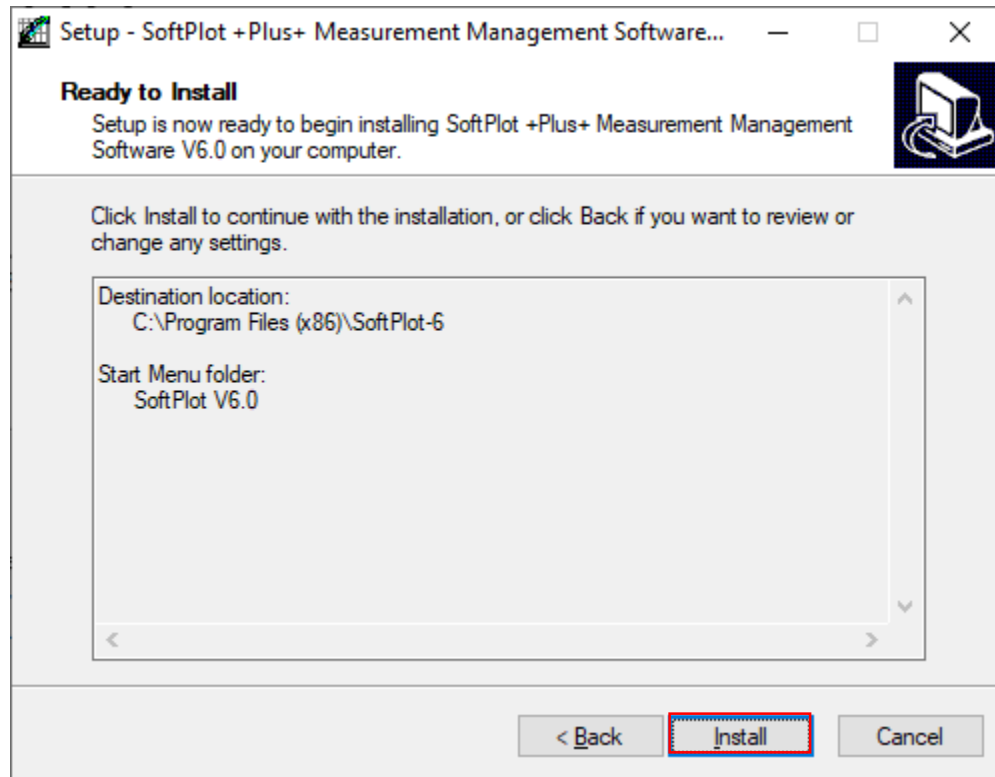
# Run the installer (page 1)



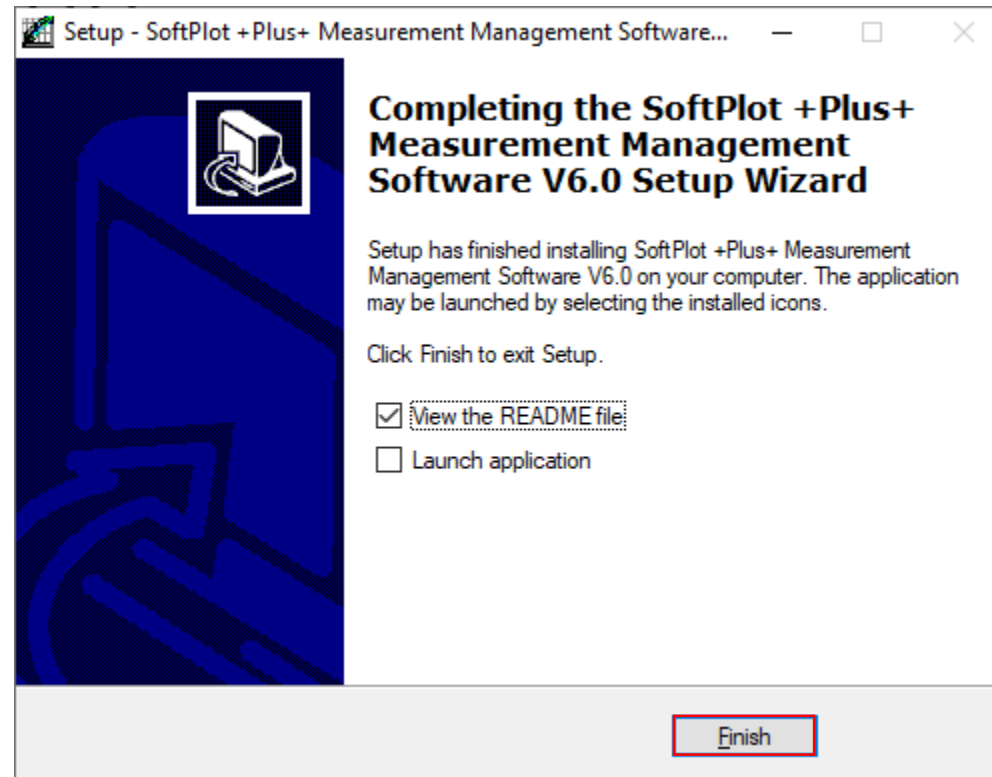
# Run the installer (page 2)



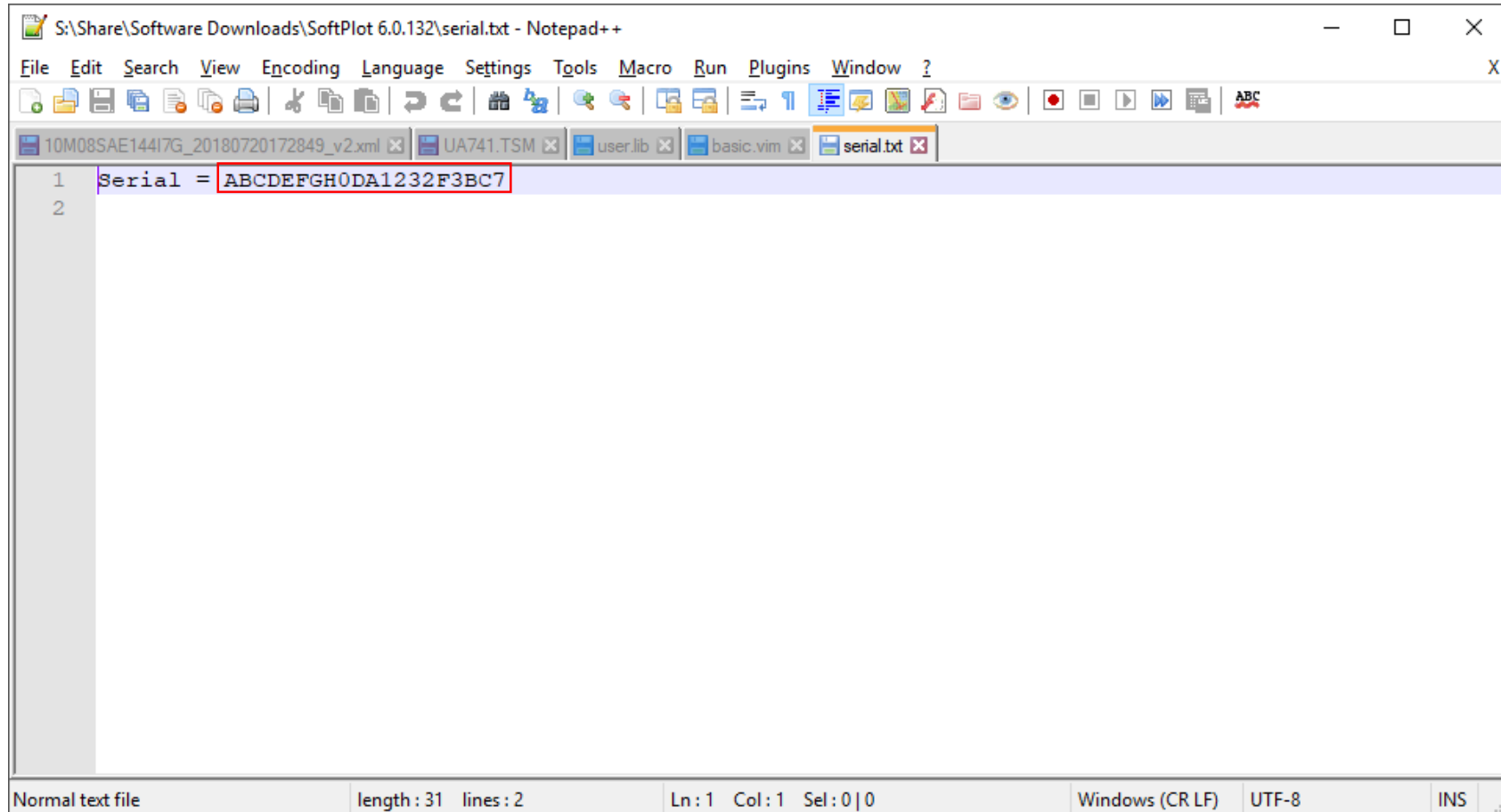
# Run the installer (page 3)



# Run the installer (page 4)



# Copy the serial number from the file in the install directory



S:\Share\Software Downloads\SoftPlot 6.0.132\serial.txt - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

10M08SAE144I7G\_20180720172849\_v2.xml UA741.TSM user.lib basic.vim serial.txt

```
1 Serial = ABCDEFGH0DA1232F3BC7
2
```

Normal text file length : 31 lines : 2 Ln : 1 Col : 1 Sel : 0 | 0 Windows (CR LF) UTF-8 INS

# Run SoftPlot and enter the serial number for the product password

**User Registration**

This product is unregistered. Please enter your details below and click on "OK"

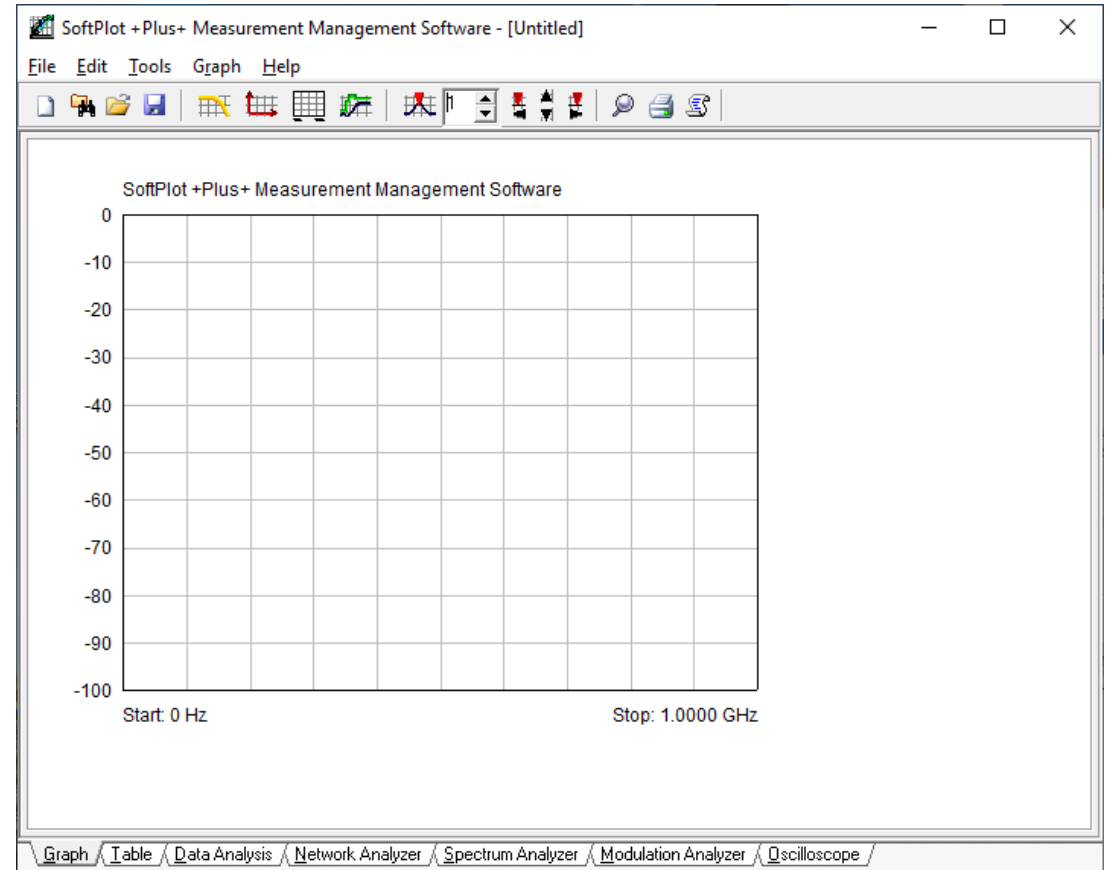
Name  
aa

Company  
bb

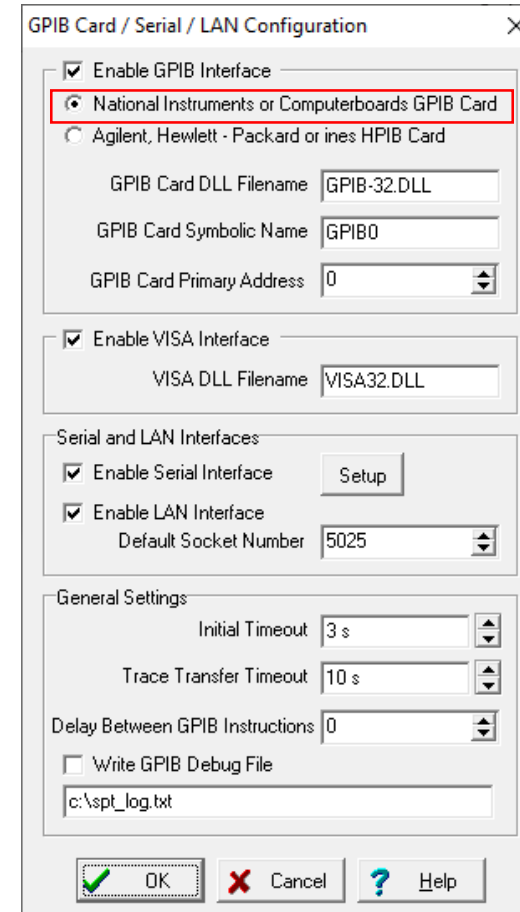
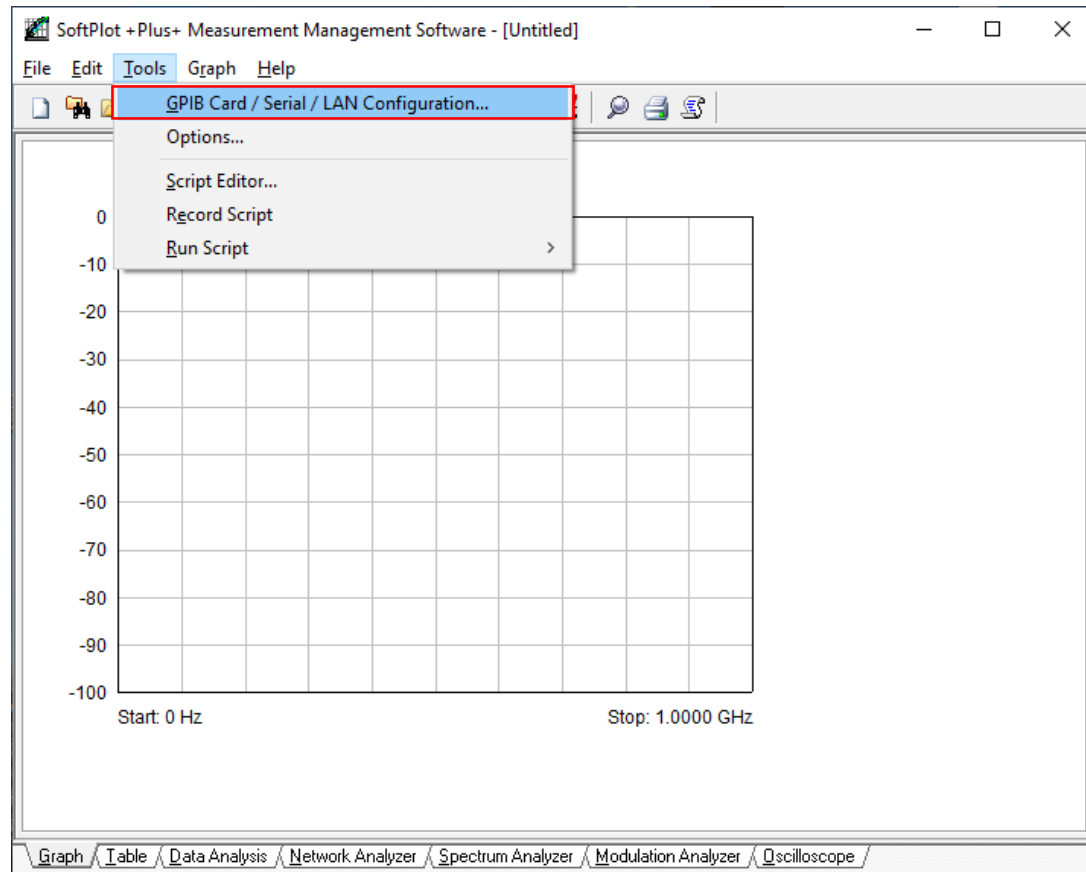
Product Password (on distribution disk)  
ABCDEFGH0DA1232F3BC7

☐ Enable as freeware demonstration mode

☒ OK ☐ Cancel



# Configure for a National Instruments GPIB interface



Select NI GPIB Card  
(provides more  
reliable comm. w/  
HP8720)



# Installing VNA Utility

# Find the installer on the web

KESFX GPIB Toolkit

Not secure | ke5fx.com/gpib/readme.htm

Incognito

## Welcome to the GPIB Toolkit!

The GPIB Toolkit is a collection of free Windows utilities that will help you make and record research-quality measurements with GPIB-based electronic test equipment.

This is version 1.978 of the Toolkit, released January 21, 2019.

**Download the GPIB Toolkit (4 MB)**

For troubleshooting help and additional application notes, check the [FAQ](#).

TEK 494AP

LEVEL  
REF \* 0DBM  
MKR \* -93.9DBM/HZ

CEN  
MKR

FREQUENCY  
1.000 000GHZ  
999.990MHZ

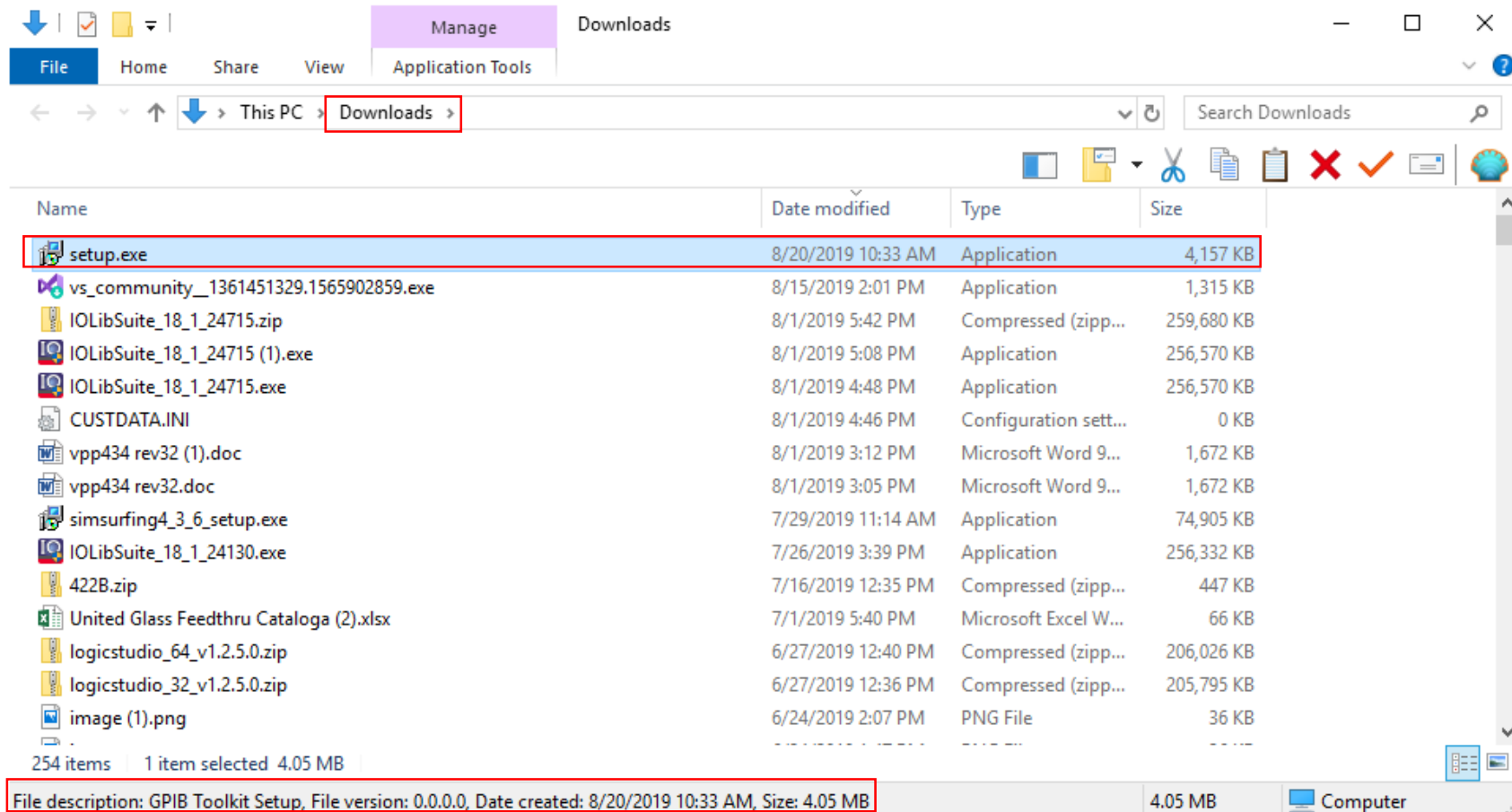
SPAN/DIV  
10KHZ

DBM  
15  
5  
-5  
-15  
-25  
-35  
-45  
-55

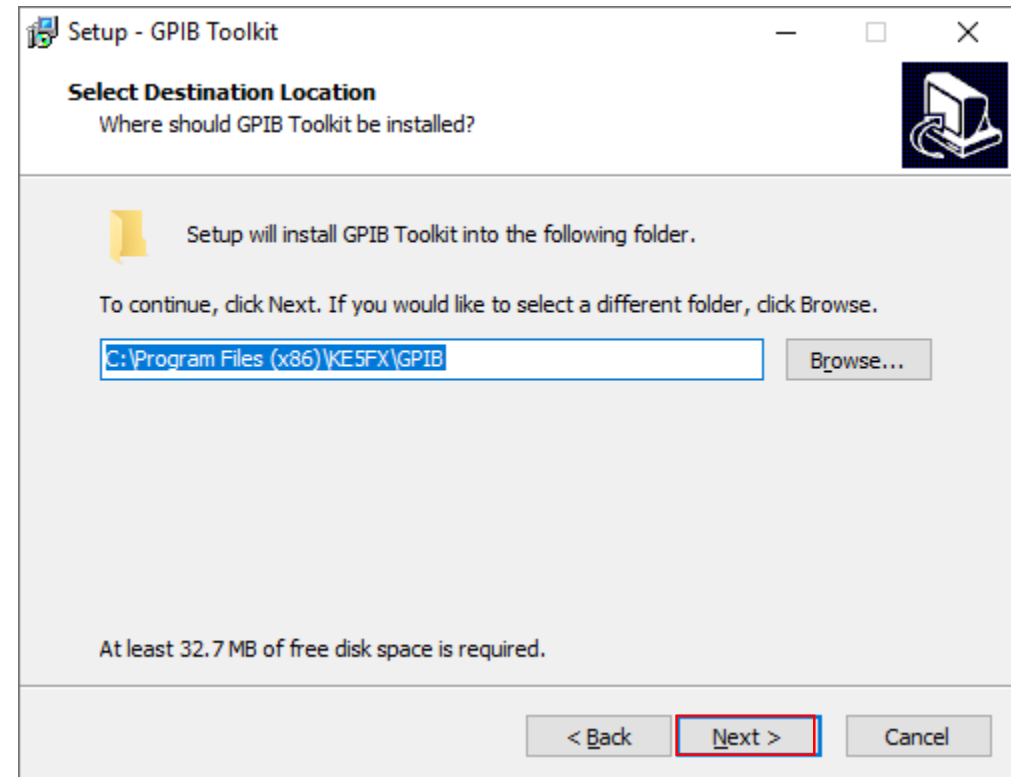
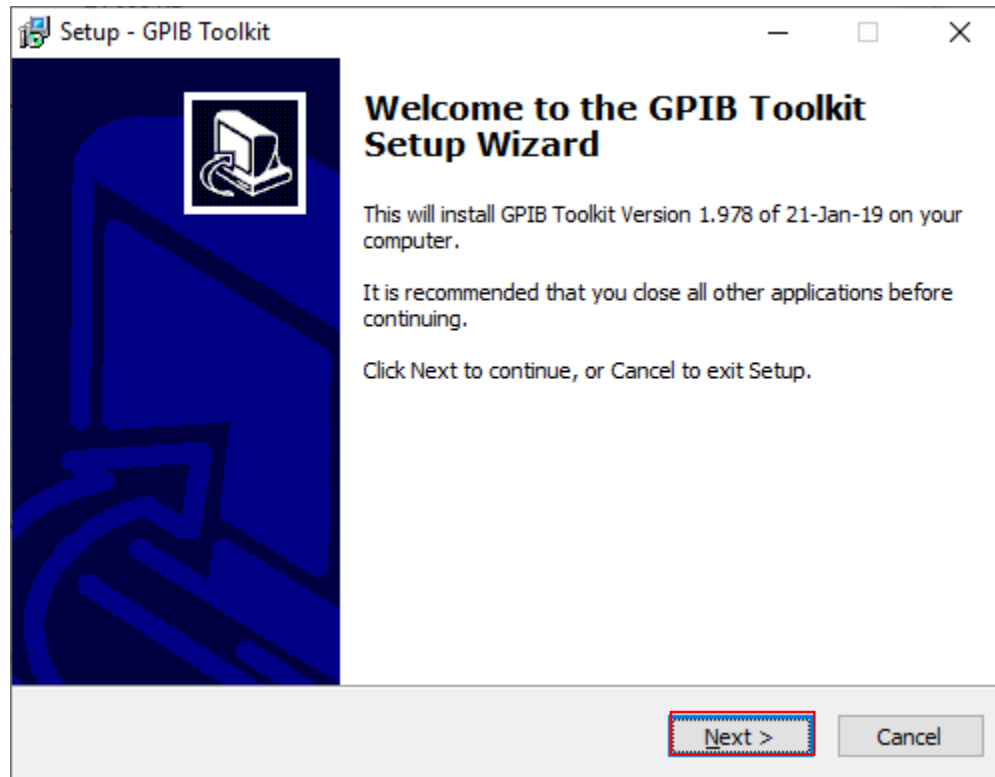
setup.exe  
4.1/4.1 MB, 0 secs left

Show all

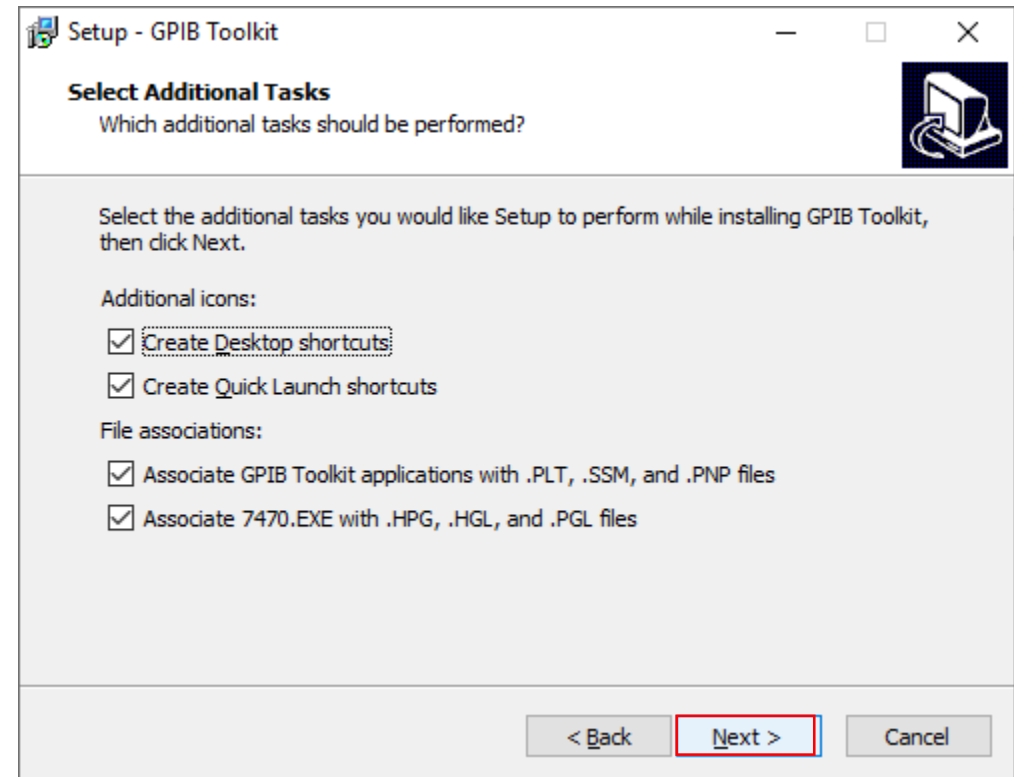
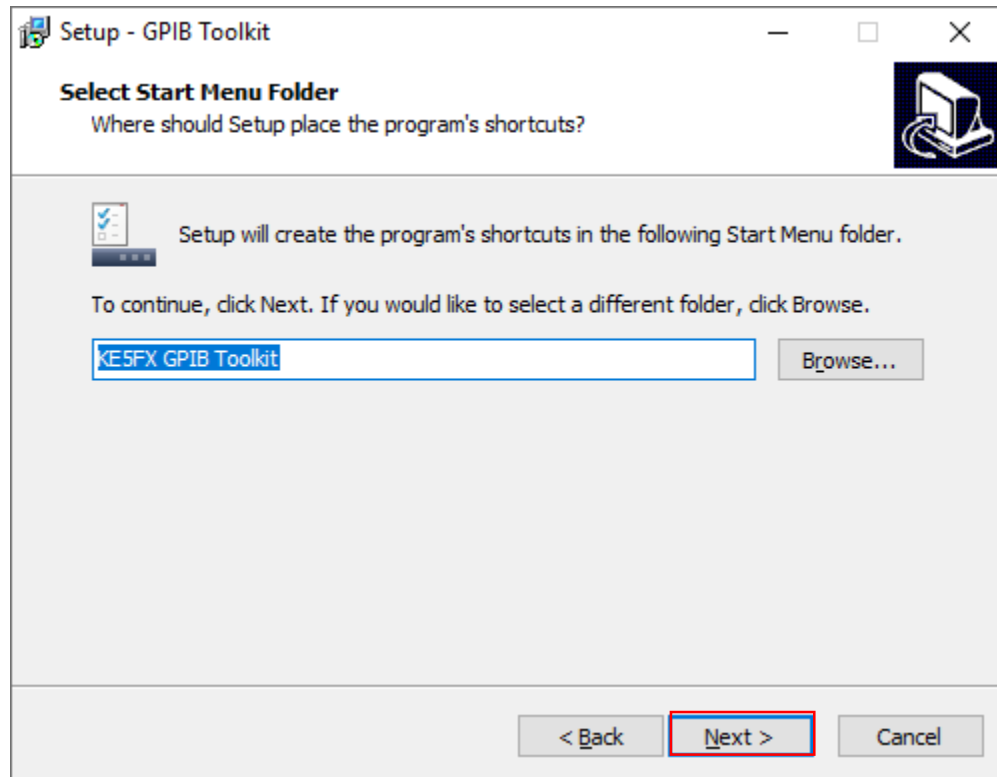
# Find the setup file in the Downloads directory



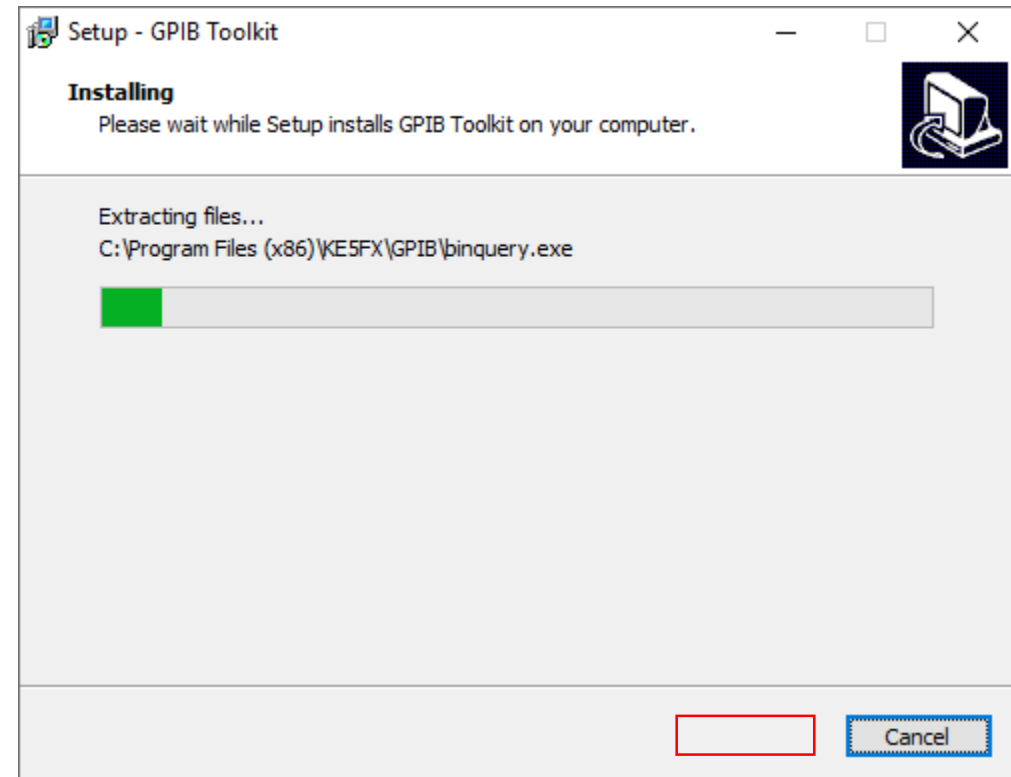
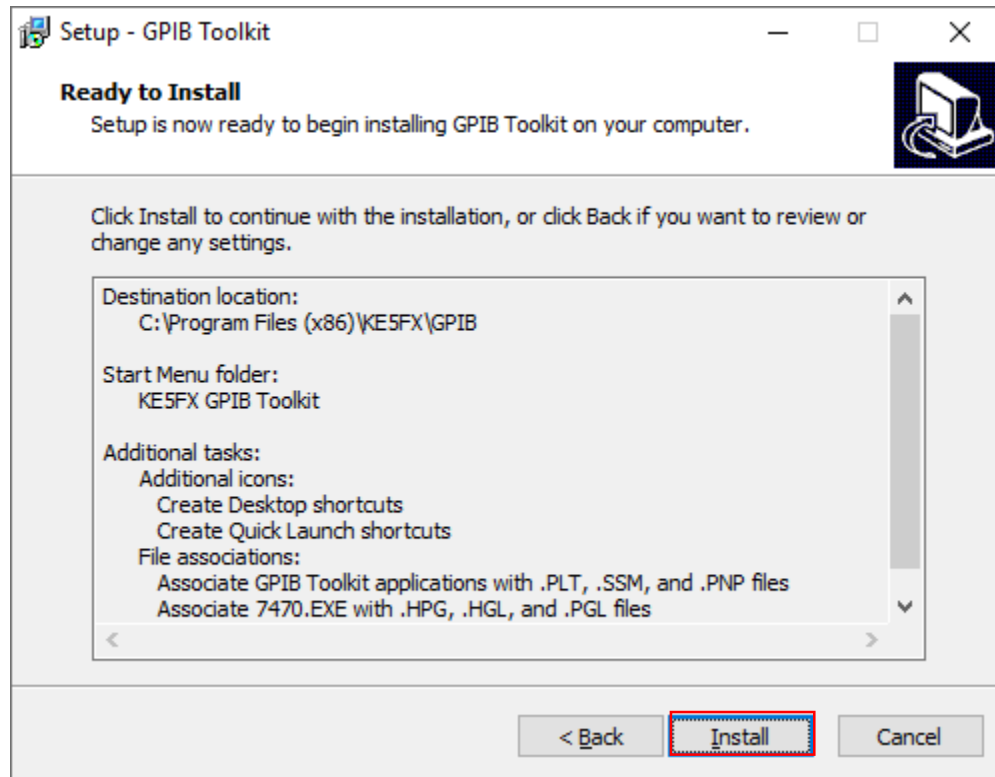
# Run the setup file (page 1)



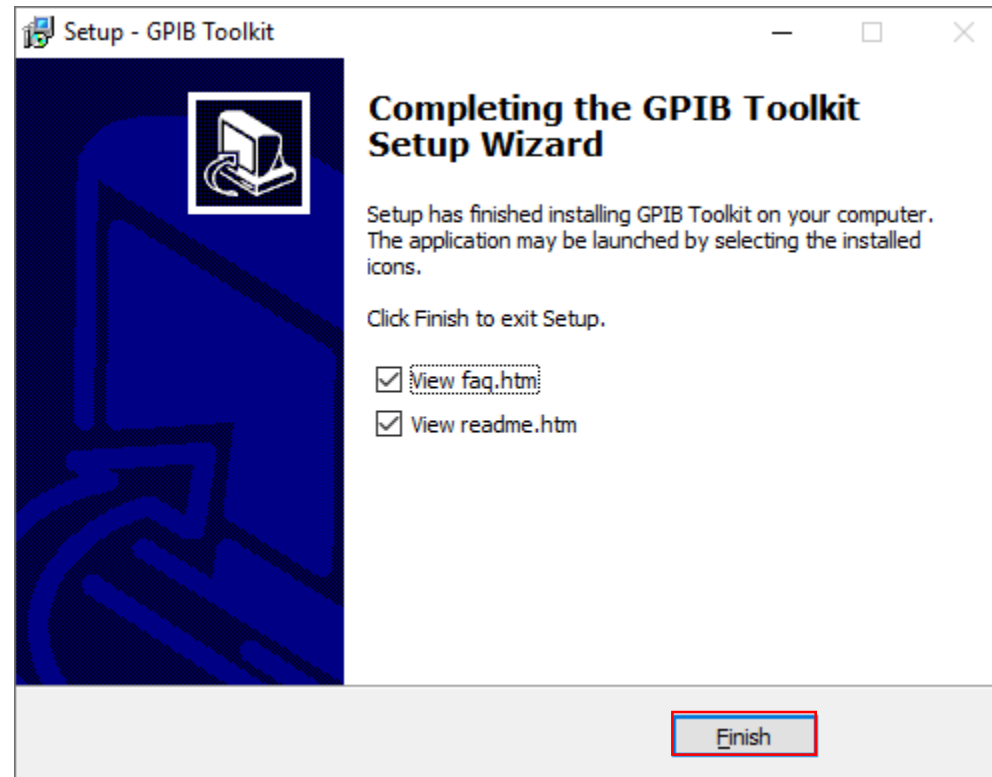
# Run the setup file (page 2)



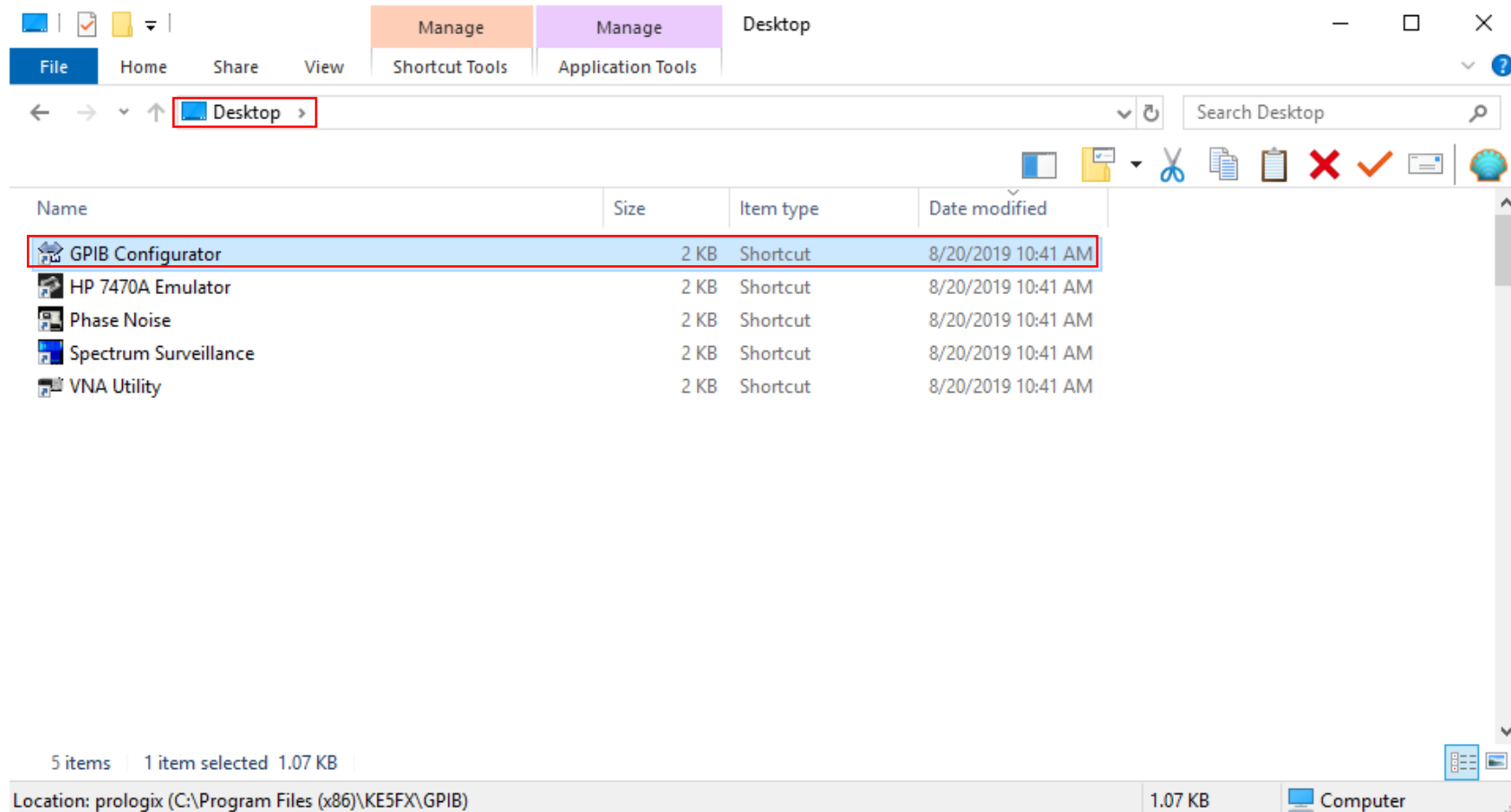
# Run the setup file (page 3)



# Run the setup file (page 4)



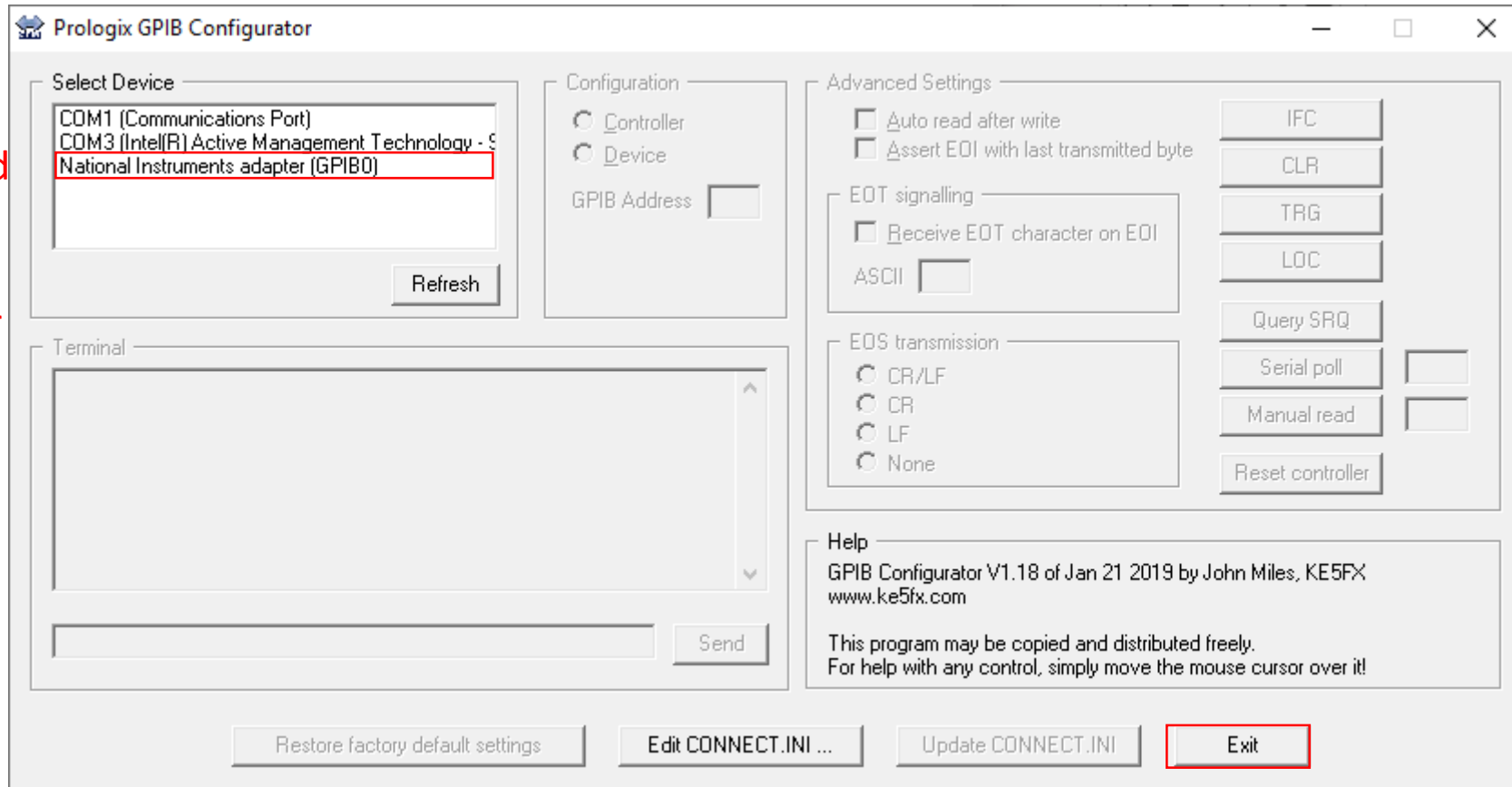
# Run the GPIB Configurator





# Check that a National Instruments GPIB interface appears

Check for NI GPIB Card  
(only means for VNA  
Utility to talk to  
Keysight adapter is for  
Keysight to emulate  
NI)



Install the Excel Template to  
automate the phase  
measurements

Find the auto test files in the Doc Control Released Directory. Refer to auto test procedure ATP-03550 rev F for operation instructions.

