
Option SUP6LP-WINM2 Installation Instructions

Kit description

Install the optional SUP6LP-WINM2 m.2 solid state disk drive (SSD) on LPD64 instruments.

Once the SUP6LP-WINM2 is installed, configure your instrument with the Microsoft Windows 10 operating system. You can remove a supported SUP6LP-WINM2 m.2 SSD from one instrument and install it on another. A T-10 Torx screwdriver is required to install the SSD.

Installation

Remove the m.2 SSD from the bottom of your instrument and install the option SUP6LP-WIN2 SSD.

Before you begin

Licensed functions (installed options) and calibration constants are stored in the instrument, not on the m.2 drive.

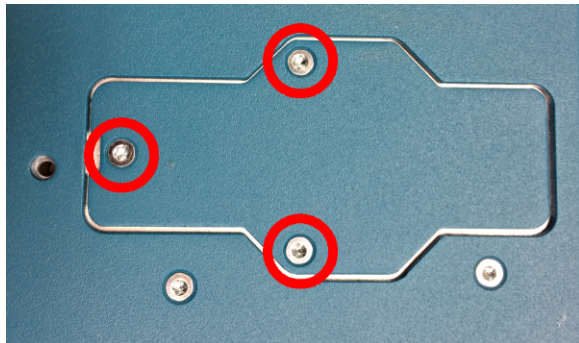
With the LPD64 6-SEC security option (installed at initial purchase), there is no C: drive on the instrument. User data such as waveform acquisitions and vertical, horizontal, and trigger settings, are not retained on the m.2 drive after the instrument is powered off. All acquisition data and setup information must be stored on external memory (USB or network).



CAUTION: Work on the instrument in an anti-static work area and use a wrist strap when removing or installing an m.2 drive. Failing to do so could damage the m.2 board and the circuit board to which it connects.

Procedure

1. Disconnect the power cord or unplug the instrument from the power source.
2. Turn the instrument bottom-up.
3. Locate the m.2 drive cover near the corner of the instrument.
4. Use a T-10 Torx screw driver to remove the three screws on the Solid State Drive cover, and remove the cover.



5. Use a T-10 Torx screwdriver to remove the screw from the end of the m.2 drive. The end of the m.2 board lifts upward as you loosen the screw.





6. Grasp the edges of the raised end and pull to remove the board.
7. Store or destroy the memory card in accordance with your organization's guidelines.
8. Install SUP6LP-WIN2 m.2 SSD.
9. Reattach the board cover.

Powering on Windows for the first time

The instrument goes through a series of configuration bootups that require manual intervention when first powering up a new (never-installed) Windows drive in an instrument. Once the drive is configured, the instrument boots into Windows and starts the oscilloscope application from then on.

1. Power on the instrument. The oscilloscope powers up to initialize some settings, then shuts down.
2. Power on the instrument again. The instrument powers up into the application startup screen, then displays a message at the bottom of the screen:

Updating System Files... This will take a few minutes.

The oscilloscope will shut down when the update is complete.

After a few minutes, the instrument powers down.

3. Power on the instrument again. The instrument boots up into Windows and starts the oscilloscope application.

The instrument attempts to activate the Windows license as part of the initial power-on process (See [Activating Windows](#) on page 3).

Activating Windows

The Windows operating system shipped from Tektronix is in a "deferred activation" state. The first time you power on an instrument with a newly installed Windows drive, the operating system may attempt to activate itself, depending on whether the instrument is connected to a network.

- The instrument is connected to a network with access to the Microsoft web site:
 - The Windows activation occurs silently in the background, and does not display any messages. No other action is required.
 - See [Verifying Windows activation](#) on page 3 to check the activation status of the instrument.
- The instrument is connected to a network without access to the Microsoft web site:
 - The instrument may attempt to activate and fail. You may see a screen message saying that Windows is not activated and the Windows user settings may be disabled.
 - See [Verifying Windows activation](#) on page 3 to check the activation status of the instrument.
 - You can activate Windows by either connecting the instrument to a network with access to Microsoft or by contacting Microsoft to obtain activation instructions:
 - Go to <https://support.microsoft.com/en-us> and select **Windows**.
 - Go to <https://support.microsoft.com/en-us/contactus/> and follow the instructions to select your preferred contact method.



Note: Please contact Microsoft to resolve Windows activation issues.

- The instrument is not connected to any network:
 - The instrument stays in the "deferred activation" state. No error message appears. Windows, and the oscilloscope application, can operate indefinitely in the deferred activation state without error messages.
 - See [Verifying Windows activation](#) on page 3 to check the activation status of the instrument.
 - Once you connect the instrument to a network with access to Microsoft, Windows will activate automatically (no interaction required).
- Moving an activated Windows SSD from one instrument to another:
 - Windows should remain activated. To verify activation, see [Verifying Windows activation](#) on page 3. If Windows lost activation when installed on the current instrument, follow the above instructions to re-activate.

Verifying Windows activation

To check that Windows is activated:

1. Tap **Start** on the Windows taskbar.
2. Scroll down and tap **Settings**.
3. Tap **Update & Security**.
4. Tap **Activation** (left side list) to display the activation status.

Windows update

Automatic Windows update is disabled by default.



Download and install the latest instrument firmware

Installing the latest firmware helps ensure that your instrument has the latest features and is taking the most accurate measurements.

To access the user interface on a Low Profile instrument, connect a monitor to a video port on the rear of the instrument, and connect a mouse to any USB Host port. You do not need to connect a mouse if your remote monitor is touch-capable. You can also remotely access the user interface of a network-connected instrument by entering the instrument's IP address in a web browser.

Prerequisite: Save any important on-instrument files (waveforms, screen captures, setups, and so on) to a USB drive or network. The installation process does not remove user-created files, but it is a good idea to back up important files before an update.

Determine the current version of firmware installed on the instrument (see **Help > About**).

Update instrument firmware from a USB drive

1. To download the instrument firmware and install onto a USB drive:
 - a. Open up a Web browser on a PC and go to www.tek.com/product-support
 - b. Enter the instrument model number in the search field and click **Go**.
 - c. Scroll down the screen and click the **Software** tab.
 - d. If the listed available firmware version (Windows or non-Windows) is newer than what is on your instrument, select and download that file to your PC.
 - e. Follow the installation instructions that are on the web site or that came with the downloaded firmware to create the firmware install file.
 - f. Copy the firmware install file to a USB flash drive.
2. To install firmware on embedded OS instruments :
 - a. Power on the instrument and wait for the instrument to fully boot up.
 - b. Insert the USB flash drive into any instrument USB Host port.
 - c. The instrument detects the update firmware and opens a dialog box. Follow the on-screen instructions to install the firmware.

 **Note:** Do not power off the instrument or remove the USB flash drive until the instrument finishes installing the firmware. The instrument displays a message when it is OK to power off. Remove the USB drive before powering on the instrument.
3. To install firmware on instruments with the Windows option:
 - a. Close the **TekScope** program before updating the firmware.
 - b. Insert the USB drive into any instrument USB Host port.
 - c. Open the Windows desktop File Explorer and navigate to and select the install file.
 - d. Run the firmware update file from the USB drive, or copy the firmware update file to the desktop and run the file from there.
 - e. Follow any on-screen instructions to install the firmware.
 - f. When the firmware install is finished, remove the USB drive and restart the instrument.

 **Note:** Do not power off the instrument, or remove the USB flash drive if installing from the drive, until the instrument finishes installing the firmware. The instrument displays a message when it is OK to power off.
4. To confirm that the firmware was updated:
 - a. Tap **Help > About** in the Menu bar.
 - b. Check that the firmware version number listed on the screen is the same version that you downloaded.



Restoring a Windows SSD

When you need to recover your Windows system image backup use the following process to restore your Windows drive.

About this task

The goal of this procedure is to use the AOMEI OneKey Recovery to restore the latest version of your Windows drive.

Before you begin

- A keyboard is attached to the instrument.
- No USB drives are plugged into the instrument.

Procedure

1. Power off the instrument completely.
2. Power the instrument on.
3. From the **Choose an operating system** menu, select the **Enter into AOMEI OneKey Recovery** option. This menu is only displayed for 5 seconds.
4. Select the **Yes** button when the **Do you need to restore your system** prompt appears. AOMEI Restore begins.
5. When the restore completes select the **Finish** button.
6. Close the AOMEI application.
The instrument powers off.
7. Power the instrument on and verify that the instrument restored successfully.

