

Workshop4

Integrated Development Environment

INSTALLATION GUIDE

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1. Description

This document describes how to install and configure Workshop4 IDE. The software installer can be downloaded from its product page on **4D Labs** website.

It is highly recommended to follow this document prior to the other ones.

2. Requirements

The following are required for the installation of Workshop4:

- Windows PC (Windows XP to Windows 10)
 - Windows 7+ is ideal
- Workshop4 IDE Installer

Note: Some older operating systems such as ME and Vista have not been tested for some time due to their availability, however should still work. It is also possible to run Workshop4 under a VM on Linux or Mac, however it is up to the user to set this up.

Listed are tools that are recommended during development:

- uUSB-PA5
- gen4-PA
- 4D-UPA
- 4D Programming Cable

All are available from **4D Systems**. These hardware tools are used to update the PmmC of 4D Labs processors. Additionally, these are used to program the module using a selection of powerful environments offered by Workshop4 IDE.

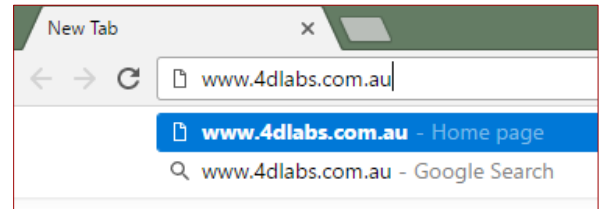
These environments are Designer, ViSi, ViSi-Genie and Serial. These are discussed in the manual titled:

[Workshop4 IDE User Guide](#)

3. Download the Installer

The installer can be downloaded on its product page from **4D Labs** website.

Using the web browser of your choice and go to www.4dlabs.com.au.



Hover your mouse over **Products**.

On the **Development Tools** group, you should be able to find **Software**. Click on it to proceed on its product page.



This will bring you to Workshop4's product page. Alternatively, you can also simply go directly to its product [page](#).

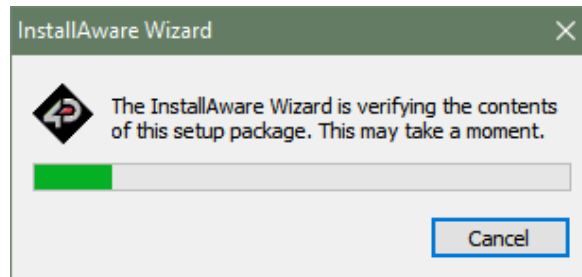
The link to the installer can be found on the Downloads section of the page.

Besides the software installer, useful documentations are also available.

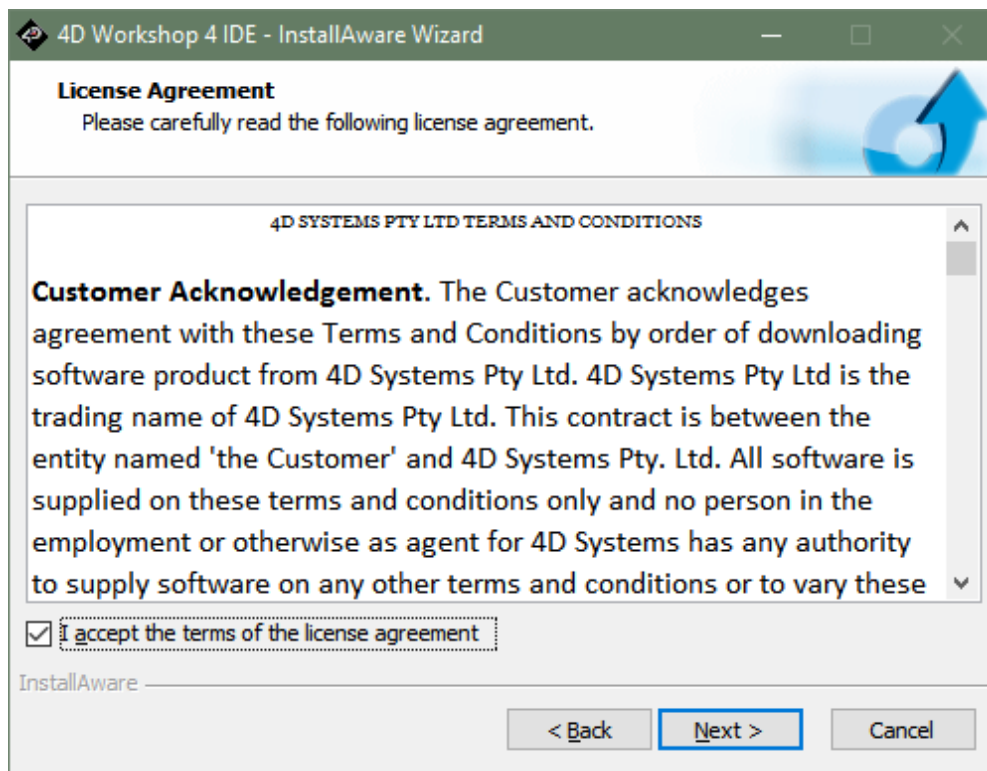
4. Run the Installer

After acquiring a copy of the installer, you should be able to run it simply by double clicking the file.

The installation starts by verifying the contents of the setup package.

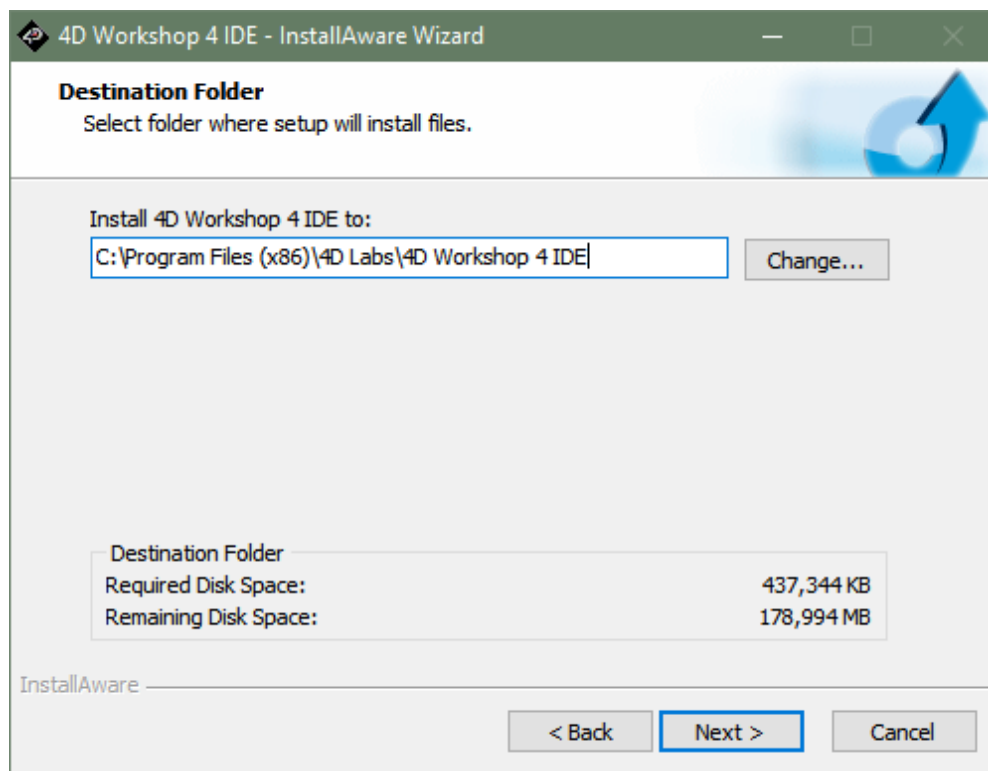


Once done, the installer will open the Terms and Conditions window.

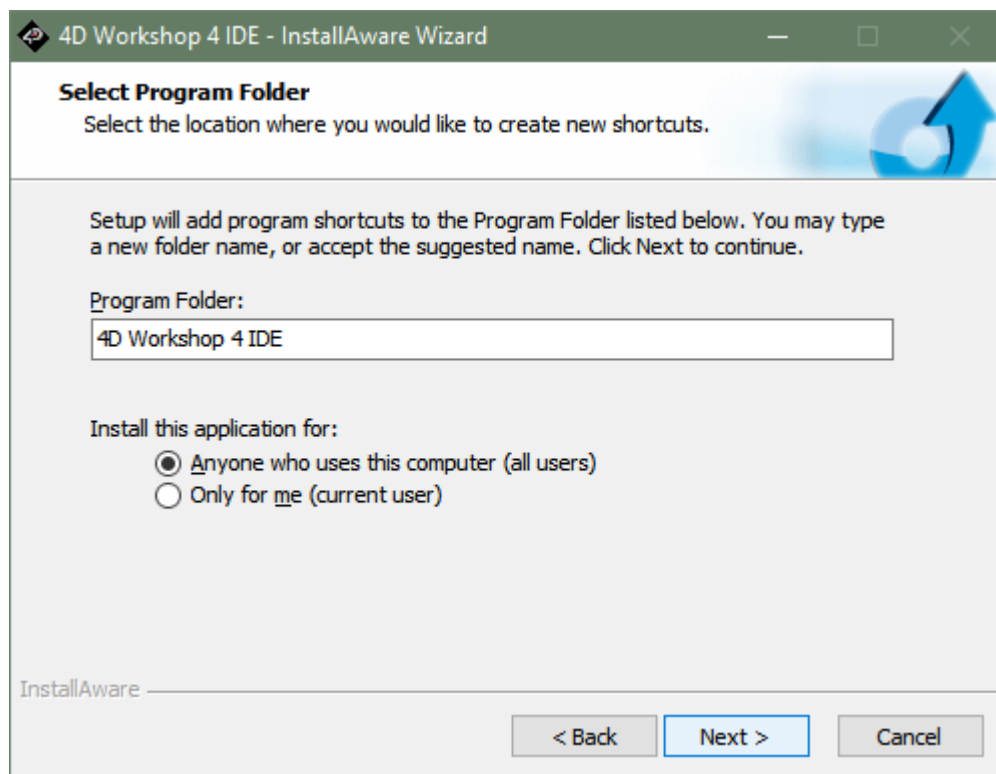


Please read the agreement carefully then tick the checkbox and click on **Next** to continue.

The installer will let you select the installation directory. You can skip this step and simply click on **Next**.

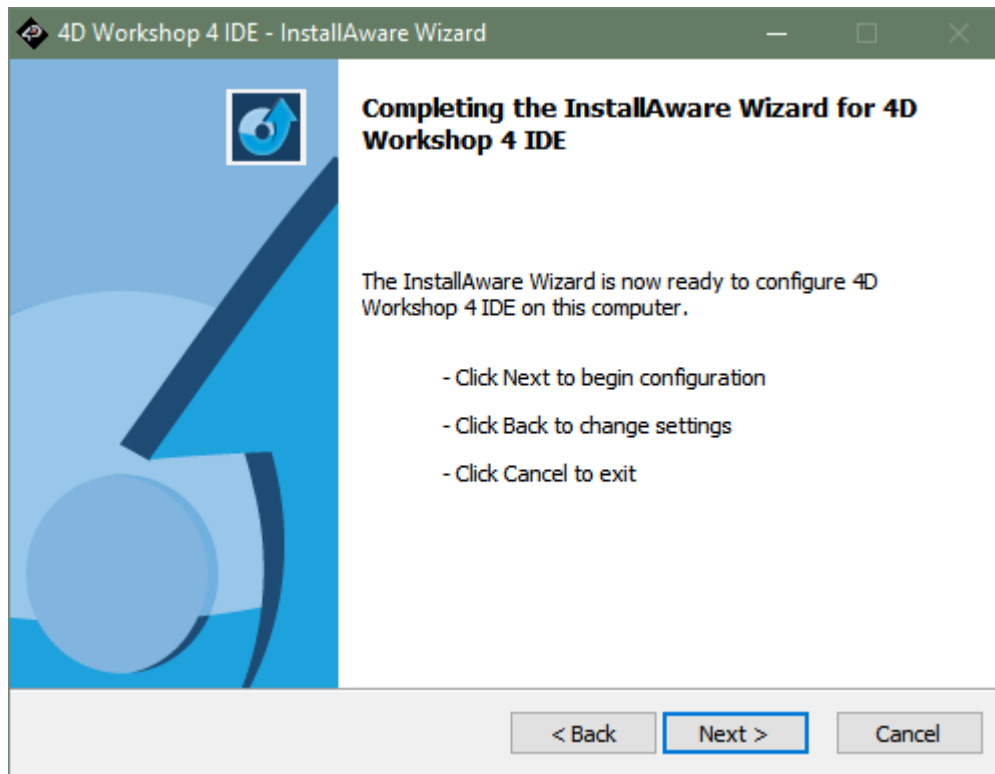


You have an option to install the application for all users or only for the current user, hence yourself. Simply click on **Next** to continue.

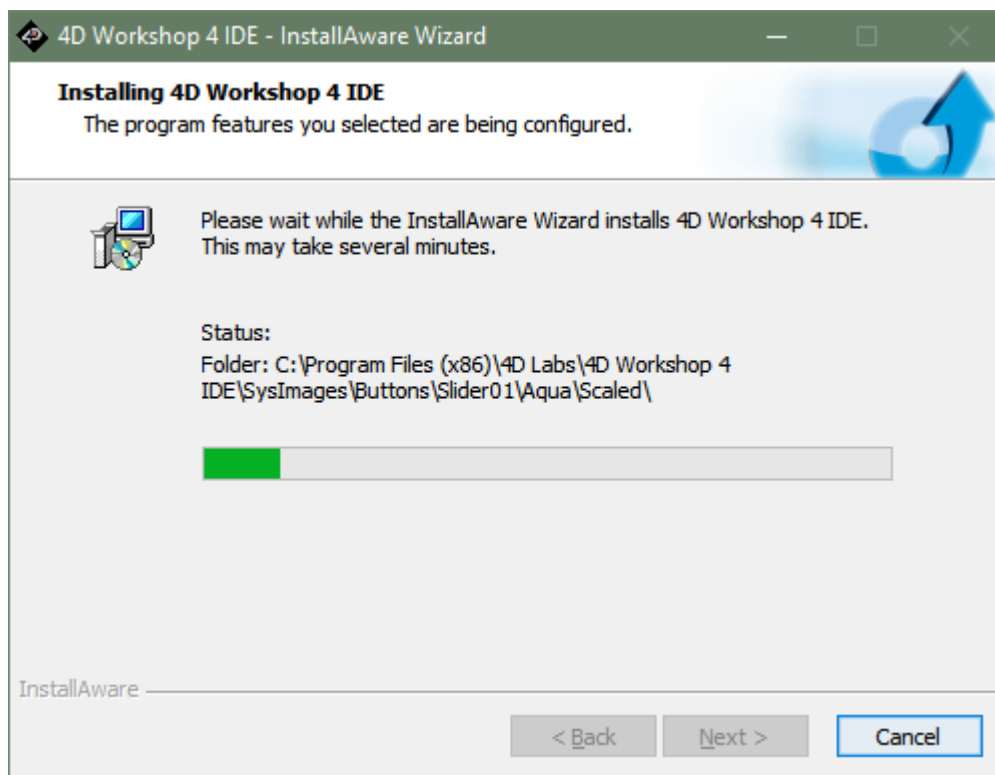


If all is set and done to your liking simply continue from this screen by clicking on **Next**. Otherwise, click on **Back** to change what you've set.

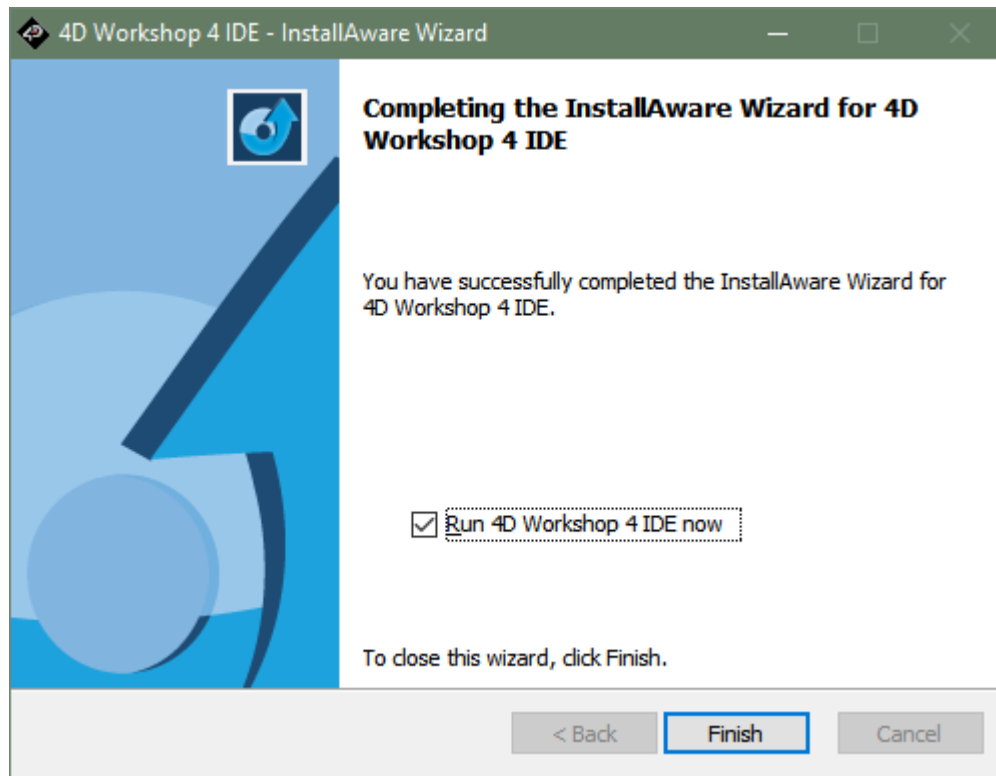
Note: It is recommended to stick to the default configurations.



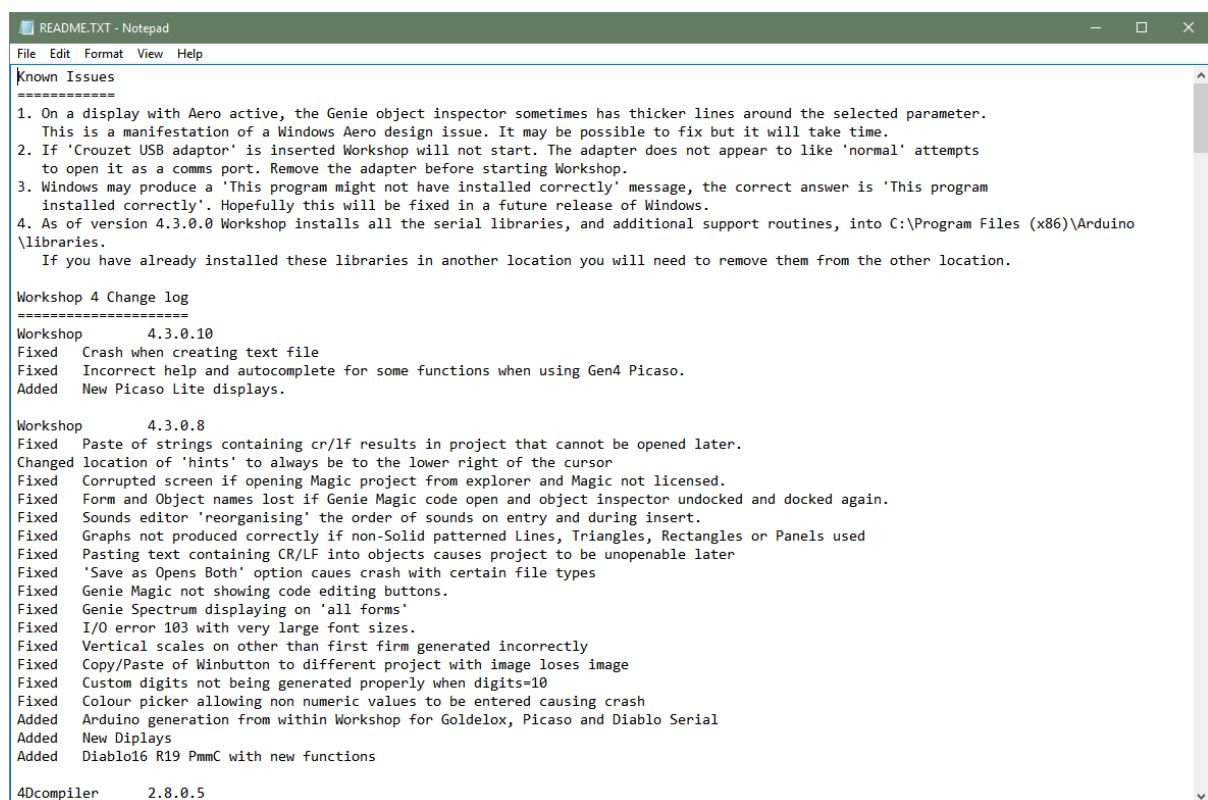
Simply wait for the installation to finish.



After the installation, you are given an option to run Workshop4 IDE after closing the installation window. If you want to do so, leave a check mark on the checkbox. Click on **Finish**.



Besides the last window from the installer, a text editor session will open a **README.TXT** file. This file contains the change log and known issues.



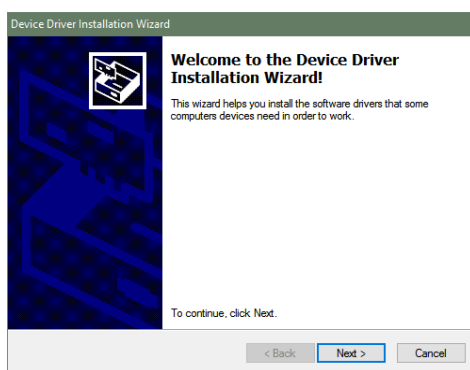
5. Programming Tools Driver Installation

You can find the links of the drivers for each recommended USB to TTL programming solutions on their product pages.

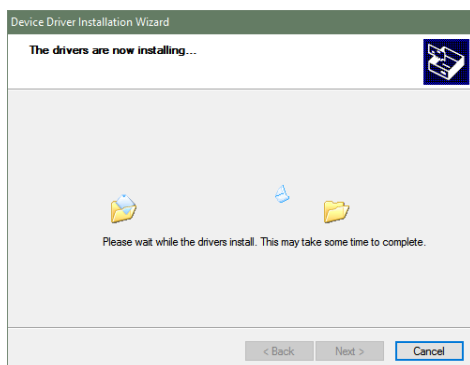
5.1. CP210x VCP Driver

This is used for **4D Programming Cable**, **uUSB-PA5-II gen4-PA** and **4D-UPA**. This driver can be downloaded [here](#).

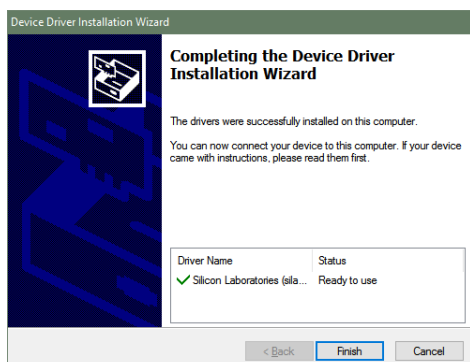
After downloading successfully, save the zipped file into a folder on your system and unzip the file. Launch the appropriate installer based on your computer's architecture.



Continue with the installation prompts by clicking on **Next**.



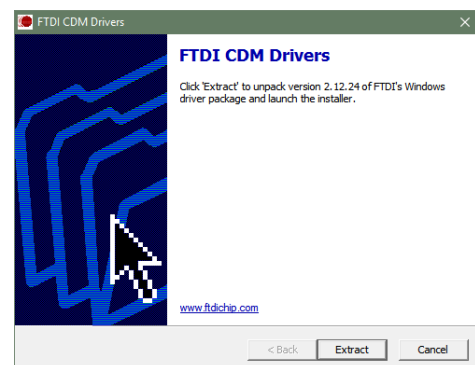
The installation should finish shortly.



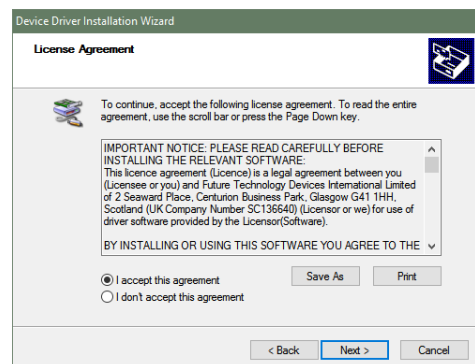
5.2. FTDI VCP Driver

The installer for this driver can be found [here](#). This driver is used solely for **uUSB-PA5** which has been superseded by the **uUSB-PA5-II**.

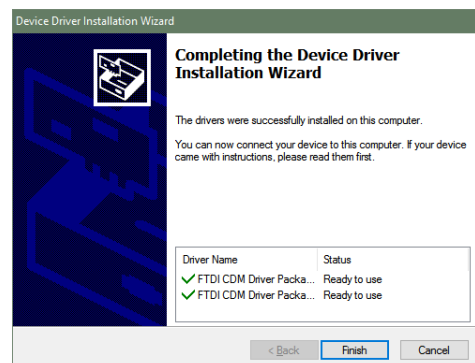
After downloading, save the zipped file into a folder on your system and unzip the file. Launch the installer afterwards.



Accept the agreement and continue with the installation prompts by clicking on **Next**.

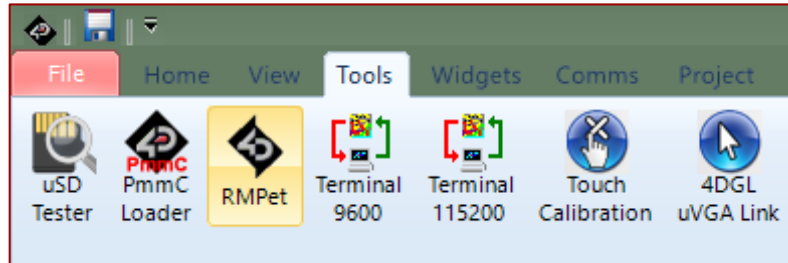


The installation should finish quickly afterwards.

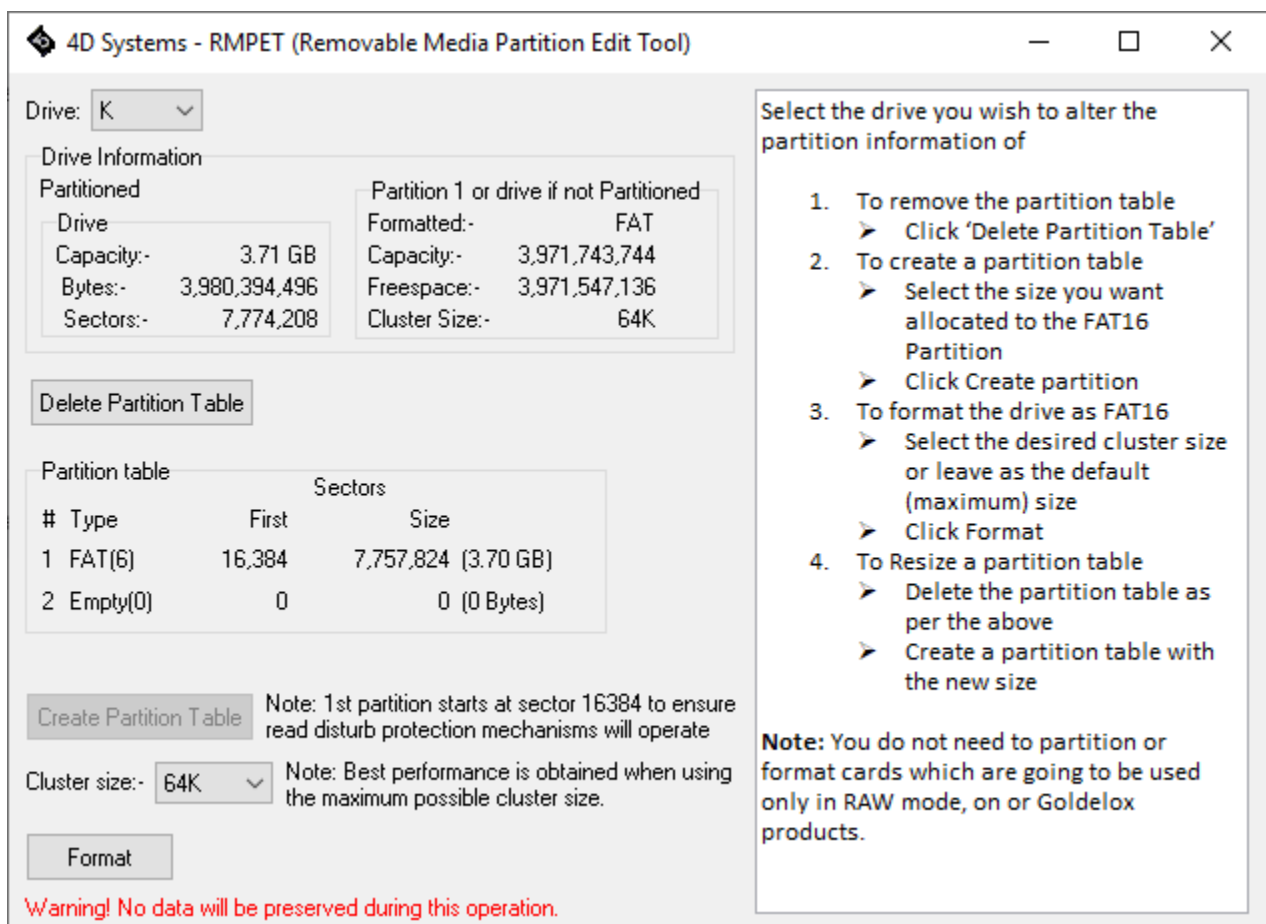


6. MicroSD Card Format

The microSD card shall be FAT16-formatted for processors other than Goldelox which uses RAW mode. It is recommended to use Workshop4's built-in utility, RMPet when formatting and partitioning a microSD card. Particularly when using uSD cards with capacity greater than 4GB.



The software provides detailed information on the uSD card's current status an easy way to partition the uSD card while considering the read disturb protection of uSD cards.



Note: Cards MUST be formatted FAT16 (except Goldelox) or RAW to work with 4D Systems models. FAT32, exFAT, NTFS etc will not work. For best results, format and partition your microSD cards using RMPet.

For a more detailed instruction on how to use this utility, please refer to 4D Systems' application note titled:

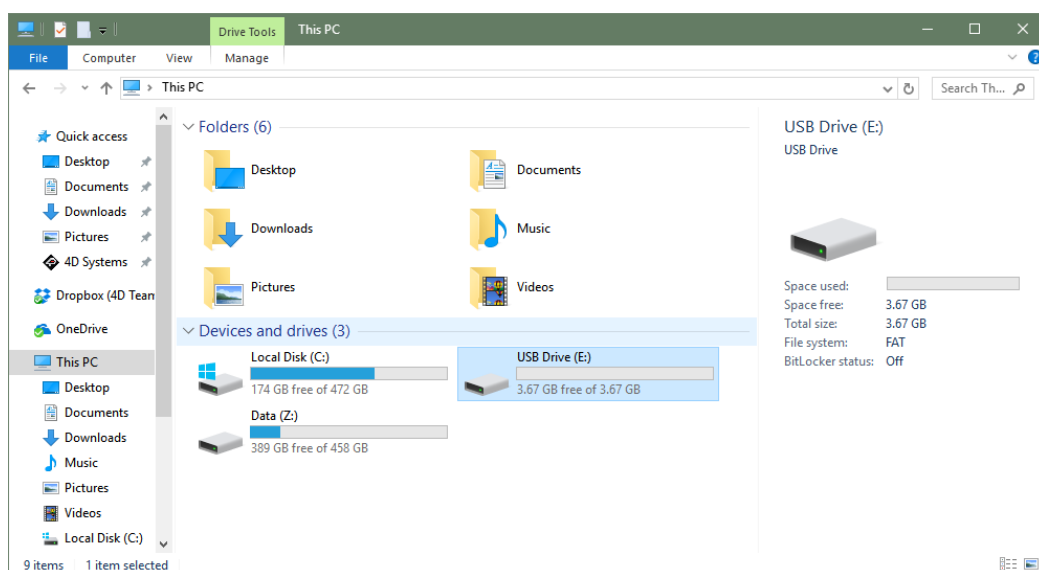
[General Partitioning a micro-SD into FAT and RAW Components](#)

When using RMPet to format and/or Partition your microSD card, it is best to use a microSD to USB adaptor, or a microSD to SD adaptor into a media slot of your Laptop/PC. The cards need to be formatted on your PC, not on the display module themselves. Many types/brands are available, choose one that best suits your hardware setup.



Note: microSD cards MUST be SPI compatible, and it is highly recommended to use Industrial Grade cards to prevent corruption over time due to a phenomenon called Read Disturb, which affects NAND Flash memory. 4D Systems offers such cards, available on our website.

Afterwards, check if the uSD card mounted successfully. Here, it is shown as drive E:.



7. Revision History

Revision	Revision Content	Revision Date
2.0	Updated Formatting and Contents	01/05/2017
2.1	Cosmetic changes and added 4D-UPA	05/04/2019

8. Legal Notice

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For Sales Support: sales@4dlabs.com.au

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