

ESIstream

The Efficient Serial Interface

ESIstream Install Python Environment

Version 1.0



Introduction

New ESistream IP package listed in the section [Package supported by this document](#), use python scripts software interface to control the FPGA design; thus completing the control hardware interface composed of push-buttons, switches and status leds.

This document aims at explaining the python environment to install to be able to use ESistream IP packages.

For technical support, please get the team involved and contact us using the [ESistream contact web page](#) or at GRE-HOTLINE-BDC@Teledyne.com

Package supported by this document

ESISstream_XILINX_KU060_V2-2
ESISstream_XILINX_KU040_V2-2
ESISstream_XILINX_7VX690_V2-2

Reference documents

TABLE OF CONTENTS

INTRODUCTION	1
PACKAGE SUPPORTED BY THIS DOCUMENT	1
REFERENCE DOCUMENTS	1
DOCUMENTS AMENDMENT	1
1. PYTHON ENVIRONMENT SETUP FOR WINDOWS	2
2. INSTALL PYSERIAL PYTHON LIBRARY	6

Documents Amendment

Issue	Date	Comments
1.0	April 2019	Creation

1. PYTHON ENVIRONMENT SETUP FOR WINDOWS

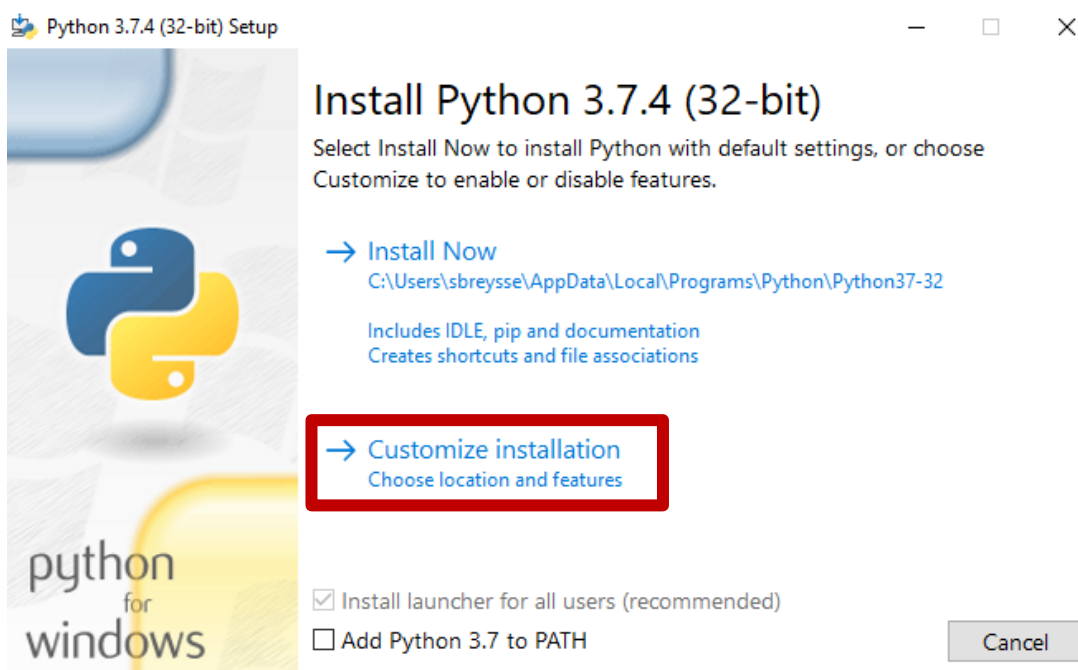
1.1. Go to: <https://www.python.org/>

Download the last version of python.

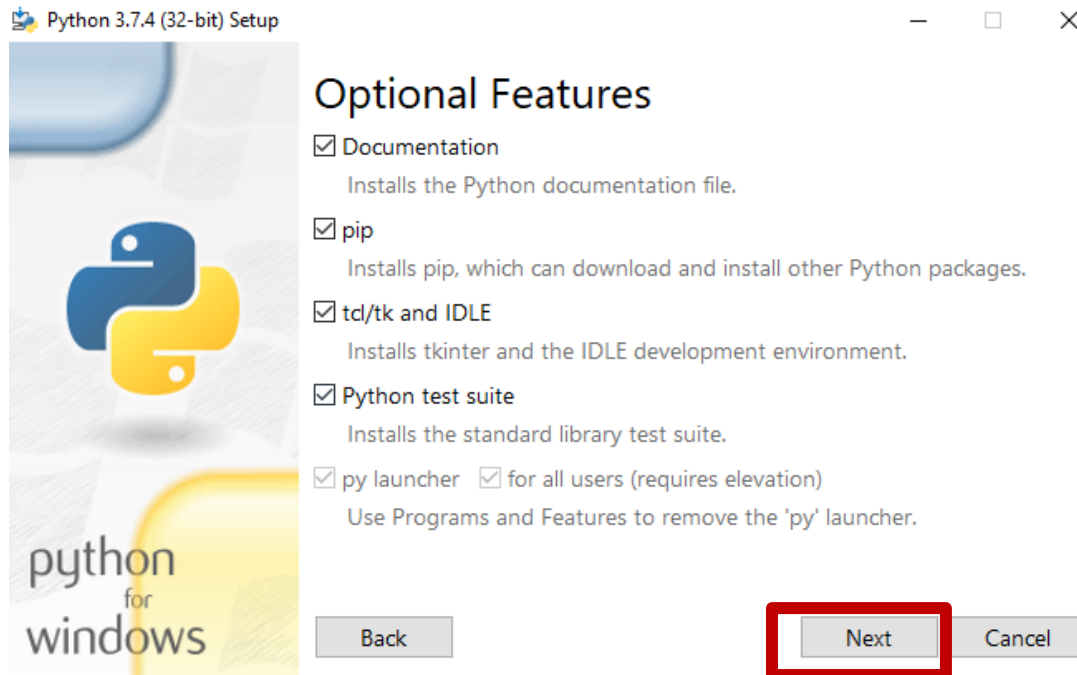


1.2. Launch python-3.7.4.exe (or the last python version).

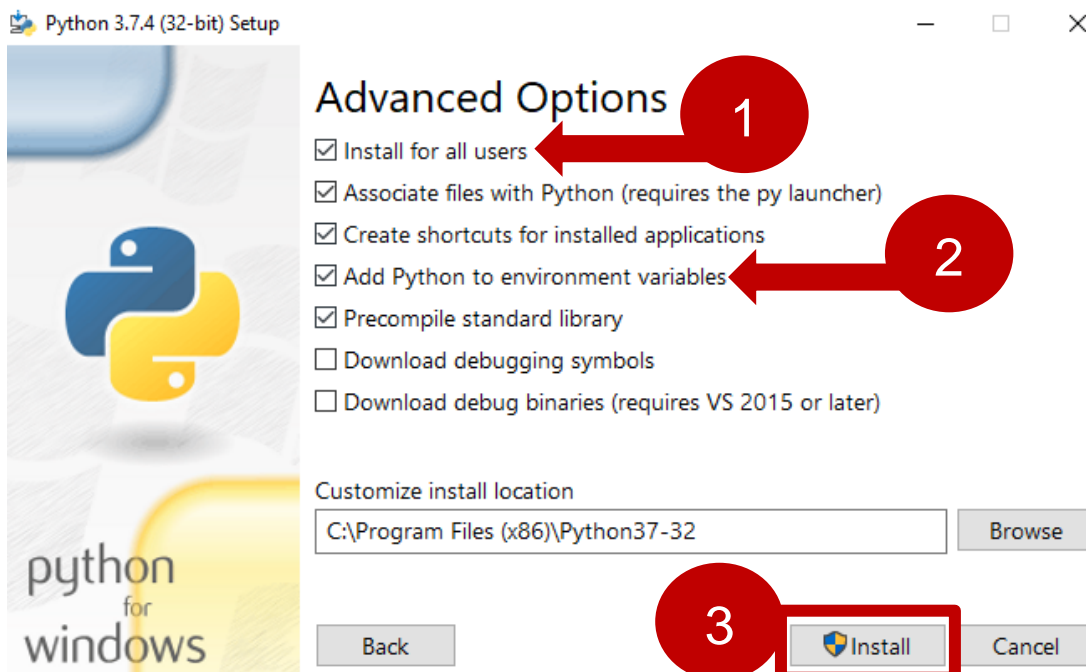
- Click on customize installation:



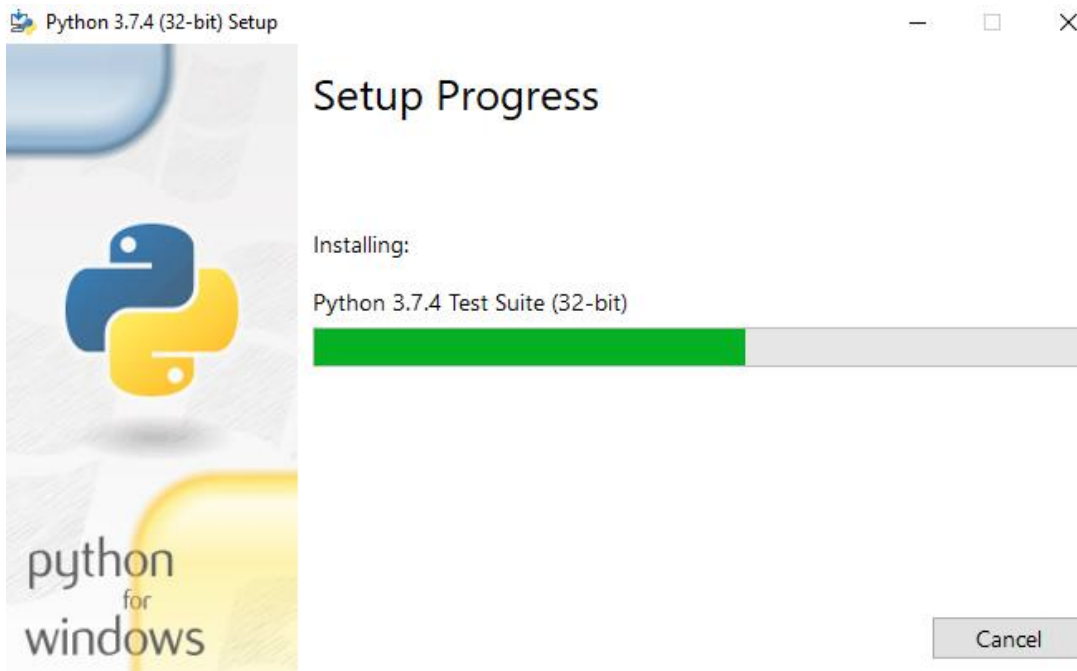
- Click on Next:



- Check *Install for all users* and *Add Python to environment variables*:



- Then click on *Install* and wait end of installation processing:

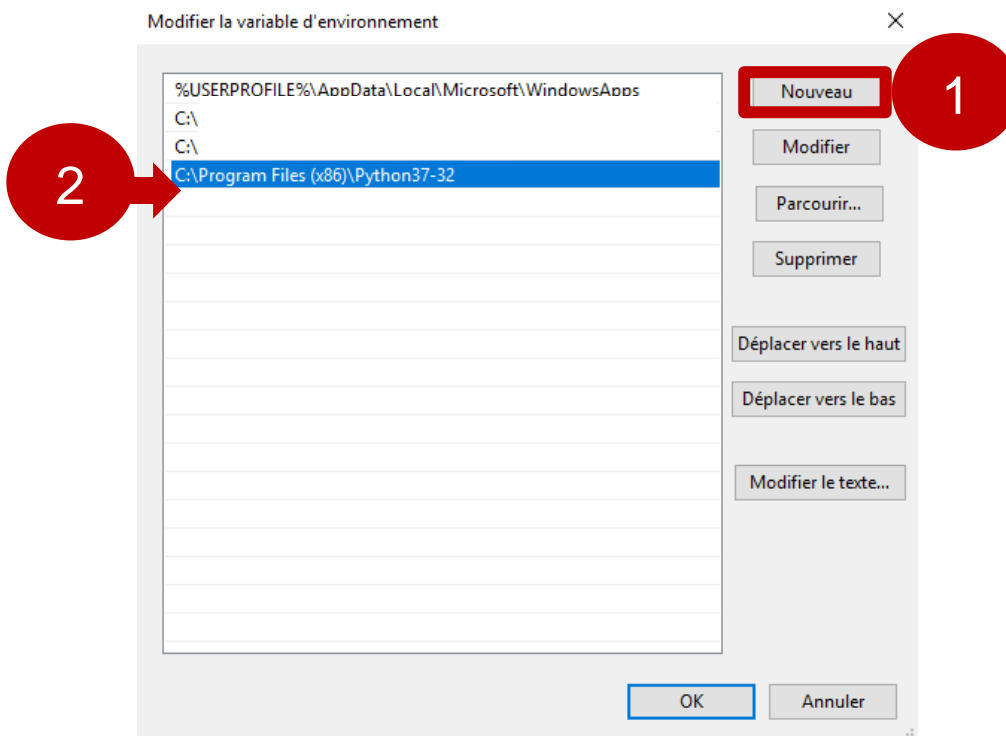
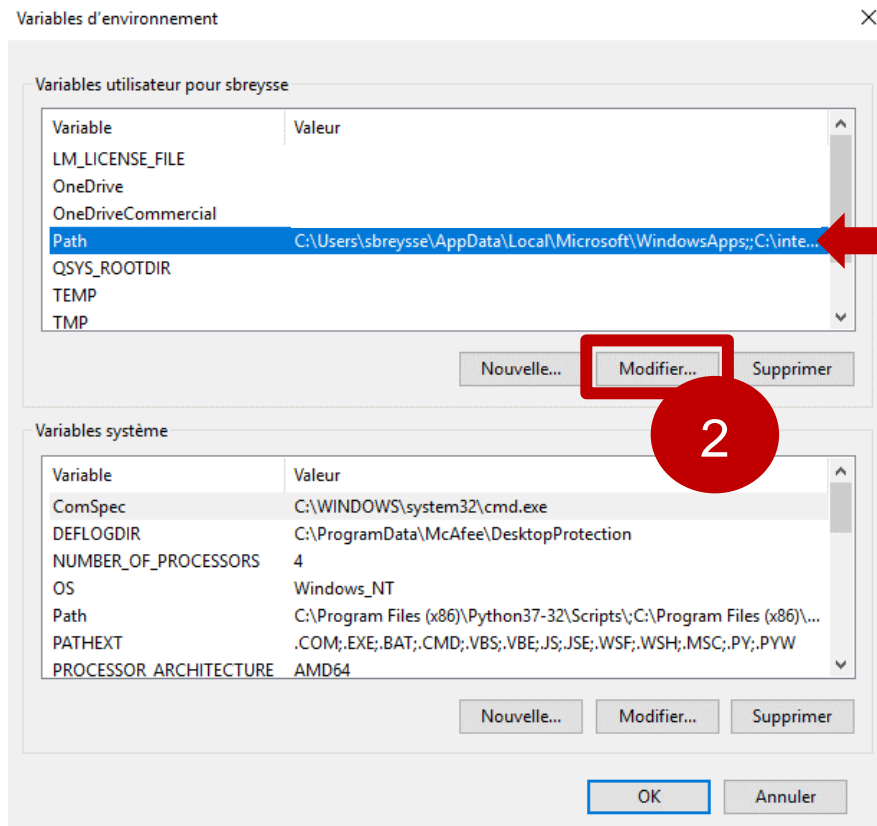


- Click on *Close*:



1.3. Windows environment variable configuration

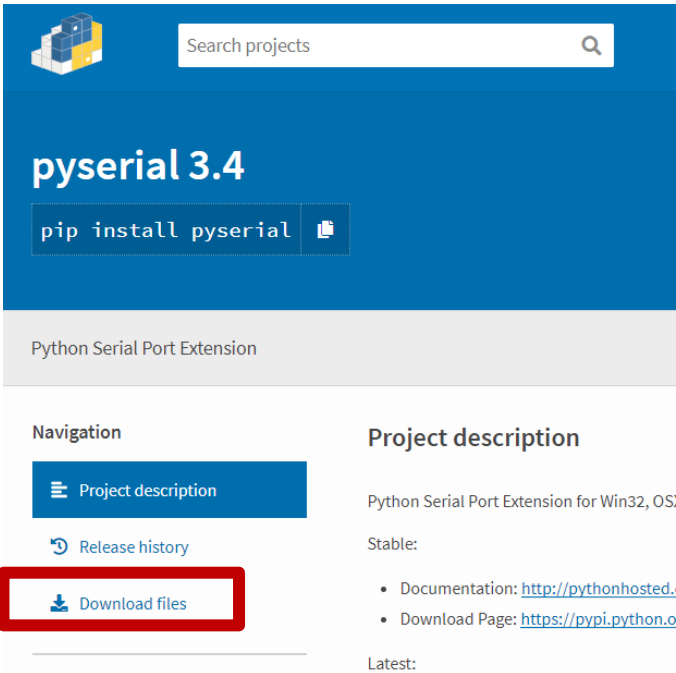
- Right-click the Computer icon and choose Properties, or in **Windows** Control Panel, choose **System**.
- Choose Advanced **system** settings.
- On the Advanced tab, click **Environment Variables**.
- Add the path C:\Program Files (x86)\Python37-32 to the path environment variable.



2. INSTALL PYSERIAL PYTHON LIBRARY

2.1. Go to <https://pypi.org/project/pyserial/>

- Download files.



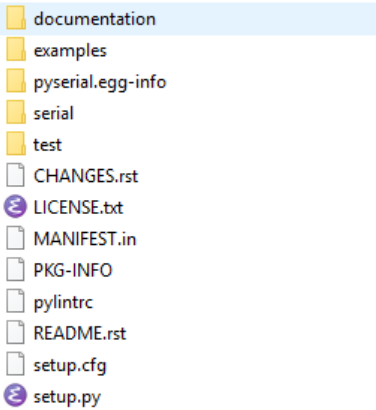
*

Download files

Download the file for your platform. If you're not sure which to choose, learn more about [installing packages](#).

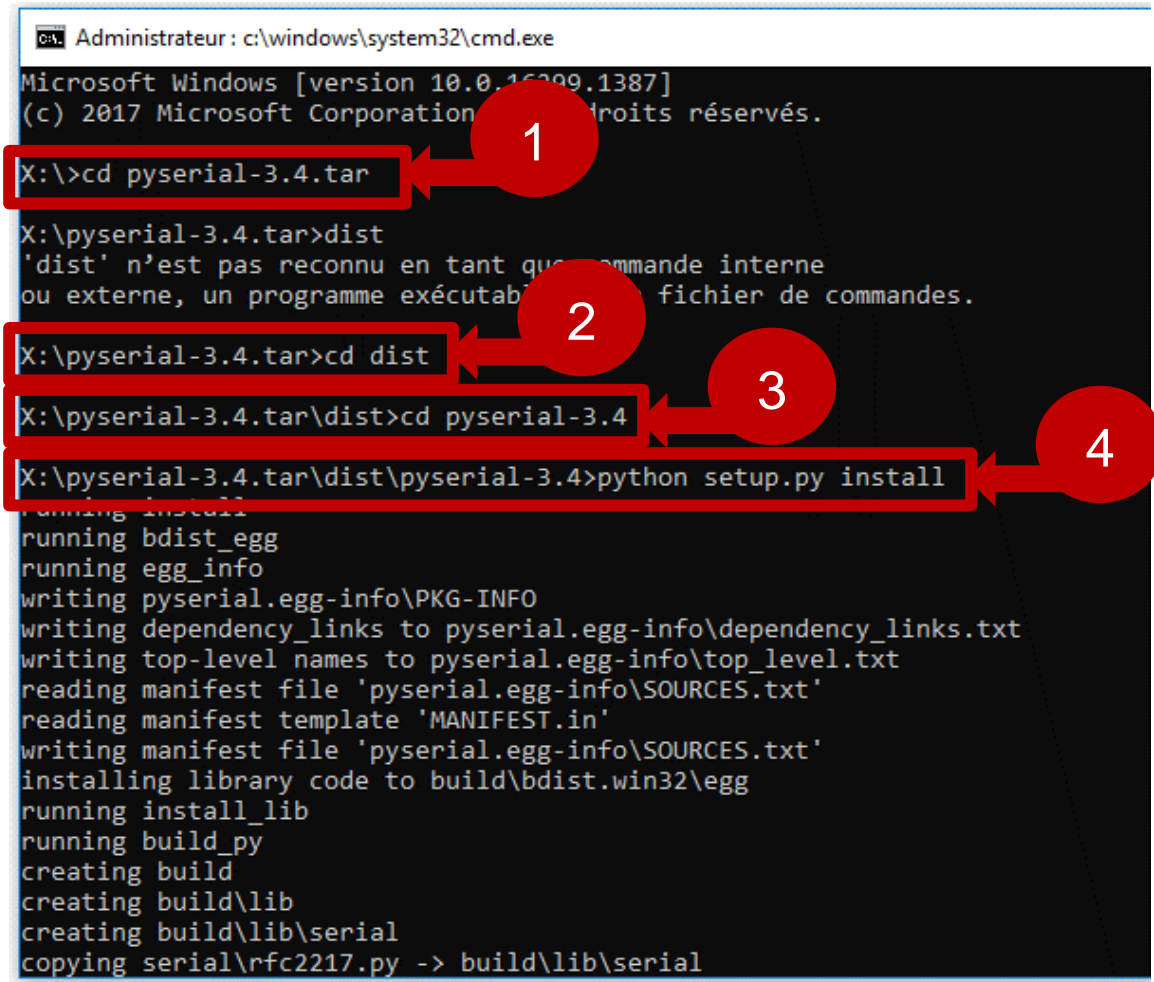
Filename, size	File type	Python version	Upload date	Hashes
pyserial-3.4-py2.py3-none-any.whl (193.7 kB)	Wheel	py2.py3	Jul 23, 2017	View
pyserial-3.4.tar.gz (151.7 kB)	Source	None	Jul 23, 2017	View

- For instance using 7-zip:
 - extract pyserial-3.4.tar.gz
 - extract pyserial-3.4.tar
- Now the folder .\pyserial-3.4.tar\dist\pyserial-3.4 should contains:



2.2. Launch pyserial library install

- Open a cmd window as administrator.
- Go to the pyserial-3.4.tar folder location.
- Then type the following commands:



```
Administrateur : c:\windows\system32\cmd.exe
Microsoft Windows [version 10.0.16299.1387]
(c) 2017 Microsoft Corporation. Tous droits réservés.

X:\>cd pyserial-3.4.tar
X:\pyserial-3.4.tar>dist
'dist' n'est pas reconnu en tant que commande interne
ou externe, un programme exécutable ou un fichier de commandes.

X:\pyserial-3.4.tar>cd dist
X:\pyserial-3.4.tar\dist>cd pyserial-3.4
X:\pyserial-3.4.tar\dist\pyserial-3.4>python setup.py install

running install
running bdist_egg
running egg_info
writing pyserial.egg-info\PKG-INFO
writing dependency_links to pyserial.egg-info\dependency_links.txt
writing top-level names to pyserial.egg-info\top_level.txt
reading manifest file 'pyserial.egg-info\SOURCES.txt'
reading manifest template 'MANIFEST.in'
writing manifest file 'pyserial.egg-info\SOURCES.txt'
installing library code to build\bdist.win32\egg
running install_lib
running build_py
creating build
creating build\lib
creating build\lib\serial
copying serial\rfc2217.py -> build\lib\serial
```

- Wait end of the installation.

PYTHON environment for an ESStream IP package is now ready.