

pySerial

Overview

This module encapsulates the access for the serial port. It provides backends for [Python](#) running on Windows, OSX, Linux, BSD (possibly any POSIX compliant system) and IronPython. The module named “serial” automatically selects the appropriate backend.

It is released under a free software license, see [LICENSE](#) for more details.

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Other pages (online)

- [project page on GitHub](#)
- [Download Page](#) with releases (PyPi)
- This page, when viewed online is at <https://pyserial.readthedocs.io/en/latest/> or <http://pythonhosted.org/pyserial/> .

Features

- Same class based interface on all supported platforms.
- Access to the port settings through Python properties.
- Support for different byte sizes, stop bits, parity and flow control with RTS/CTS and/or Xon/Xoff.
- Working with or without receive timeout.
- File like API with “read” and “write” (“readline” etc. also supported).
- The files in this package are 100% pure Python.
- The port is set up for binary transmission. No NULL byte stripping, CR-LF translation etc. (which are many times enabled for POSIX.) This makes this module universally useful.
- Compatible with `io` library
- RFC 2217 client (experimental), server provided in the examples.

Requirements

- Python 2.7 or Python 3.4 and newer
- If running on Windows: Windows 7 or newer

- If running on Jython: “Java Communications” (JavaComm) or compatible extension for Java

For older installations (older Python versions or older operating systems), see [older versions](#) below.

Installation

This installs a package that can be used from Python (`import serial`).

To install for all users on the system, administrator rights (root) may be required.

From PyPI

pySerial can be installed from PyPI:

```
python -m pip install pyserial
```

Using the *python/python3* executable of the desired version (2.7/3.x).

Developers also may be interested to get the source archive, because it contains examples, tests and the this documentation.

From Conda

pySerial can be installed from Conda:

```
conda install pyserial  
  
or  
  
conda install -c conda-forge pyserial
```

Currently the default conda channel will provide version 3.4 whereas the conda-forge channel provides the current 3.x version.

Conda: <https://www.continuum.io/downloads>

From source (zip/tar.gz or checkout)

Download the archive from <http://pypi.python.org/pypi/pyserial> or <https://github.com/pyserial/pyserial/releases>. Unpack the archive, enter the `pyserial-x.y` directory and run:

```
python setup.py install
```

Using the *python/python3* executable of the desired version (2.7/3.x).

Packages

There are also packaged versions for some Linux distributions:

- Debian/Ubuntu: “python-serial”, “python3-serial”
- Fedora / RHEL / CentOS / EPEL: “pyserial”
- Arch Linux: “python-pyserial”
- Gentoo: “dev-python/pyserial”

Note that some distributions may package an older version of pySerial. These packages are created and maintained by developers working on these distributions.

References

- Python: <http://www.python.org/>
- Jython: <http://www.jython.org/>
- IronPython: <http://www.codeplex.com/IronPython>

Older Versions

Older versions are still available on the current [download](#) page or the [old download](#) page. The last version of pySerial’s 2.x series was [2.7](#), compatible with Python 2.3 and newer and partially with early Python 3.x versions.

pySerial [1.21](#) is compatible with Python 2.0 on Windows, Linux and several un*x like systems, MacOSX and Jython.

On Windows, releases older than 2.5 will depend on [pywin32](#) (previously known as win32all). WinXP is supported up to 3.0.1.