

Local Positioning Engine

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Application note

Abstract

This application note lists the open-source licenses used in the u-blox Local Positioning Engine.

Document information

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Subtitle	Open-source licenses	
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This document applies to the following products:

Product name
XPLR-AOA-2 Bluetooth 5.1 indoor positioning explorer kit

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1 Introduction

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This document contains the licensing terms for third party open-source software included in u-blox Indoor Positioning demo system.

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2.2 Python sockets module

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The [socket](#) module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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2.3 Mersenne Twister (random module)

Reference: <https://docs.python.org/3/license.html#mersenne-twister>

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)` or `init_by_array(init_key, key_length)`.

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2.4 NumPy

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2.7 utm

Reference: <https://github.com/Turbo87/utm/>

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2.8 pyserial

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2.9 wheel

Reference: <https://github.com/dev-techmoe/python-wheel>

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2.10 requests

Reference: <https://github.com/psf/requests>

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Version 2.0, January 2004

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2.11 flask-sockets

Reference: <https://github.com/kennethreitz/flask-sockets>

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2.12 itsdangerous

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2.13 click

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2.14 visitor

Reference: <https://github.com/mbr/visitor>

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2.16 certifi

Reference: <https://github.com/certifi/python-certifi>

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

2.17 pillow

Reference: <https://github.com/python-pillow/Pillow>

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2.18 pyparsing

Reference: <https://github.com/pyparsing/pyparsing/>

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2.19 python-dateutil

Reference: <https://github.com/dateutil/dateutil>

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2.20 six

Reference: <https://github.com/benjaminp/six>

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2.21 kiwisolver

Reference: <https://github.com/nucleic/kiwi>

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Chris Colbert began the Kiwi project in December 2013 in an effort to create a blisteringly fast UI constraint solver. Chris is still the project lead.

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2.22 cffi

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2.23 gevent

Reference: <https://github.com/gevent/gevent/>

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2.24 gevent-websocket

Reference: <https://gitlab.com/noppo/gevent-websocket/>

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2.25 greenlet

Reference: <https://github.com/python-greenlet/greenlet/>

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2.26 zope.event

Reference: <https://github.com/zopefoundation/zope.event>

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2.27 zope.interface

Reference: <https://github.com/zopefoundation/zope.interface>

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2.28 cython

Reference: <https://github.com/cython/cython>

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2.29 Font-Awesome

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2.30 react-uploady

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2.31 jest-dom

Reference: <https://github.com/testing-library/jest-dom/blob/main/LICENSE>

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2.32 babel-eslint

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2.33 bootstrap

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2.34 eslint-config-react-app

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2.35 eslint-plugin-flowtype

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2.36 eslint-plugin-import

Reference: <https://github.com/import-js/eslint-plugin-import>

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2.37 eslint-plugin-jsx-a11y

Reference: <https://github.com/jsx-eslint/eslint-plugin-jsx-a11y>

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2.38 eslint-plugin-react

Reference: <https://github.com/yannickcr/eslint-plugin-react>

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2.39 eslint-plugin-react-hooks

Reference: <https://github.com/facebook/react>

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2.40 Flask – npm

Reference: <https://www.npmjs.com/package/flask> <https://github.com/jaradlight/flask>

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2.41 http-proxy-middleware

Reference: <https://github.com/chimurai/http-proxy-middleware>

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2.42 jquery

Reference: <https://github.com/jquery/jquery>

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2.43 Konva

Reference: <https://github.com/konva/konva>

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2.44 Popper.js

Reference: <https://github.com/popperjs/popper-core>

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2.45 Prop-types

Reference: <https://github.com/facebook/prop-types>

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2.46 rc-progress

Reference: <https://github.com/react-component/progress>

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2.47 React

Reference: <https://github.com/facebook/react>

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2.48 react-bootstrap

Reference: <https://github.com/react-bootstrap/react-bootstrap>

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2.49 react-dom

Reference: <https://github.com/facebook/react>

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2.50 react-konva

Reference: <https://github.com/konvajs/react-konva>

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2.51 react-router-dom

Reference: <https://github.com/remix-run/react-router>

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2.52 react-scripts

Reference: <https://github.com/facebook/create-react-app>

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2.53 typescript

Reference: <https://github.com/Microsoft/TypeScript>

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2.54 react-testing-library

Reference: <https://github.com/testing-library/react-testing-library>

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2.55 user-event

Reference: <https://github.com/Microsoft/TypeScript>

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2.56 depcheck

Reference: <https://github.com/depcheck/depcheck>

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2.57 pkg

Reference: <https://github.com/vercel/pkg>

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Related documentation

[1] XPLR-AOA explorer kits, [UBX-21004616](#)

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Revision history

Revision	Date	Name	Comments
R01	27-dec-2021	mapa	Initial release

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