



Taoglas EDGE™ Locate EL20

Part No: EL20

Description:

High Precision GNSS Solutior

Ordering Information:

EL20A – Taoglas EDGE™ Locate - cmLevel Positioning Module (With USB to PMOD interface) **EL20B –** Taoglas EDGE™ Locate - cmLevel Positioning Module (Module Only)

Features:

High-end RTK receiver Integrated u-blox ZedF9P multi-band GNSS Receiver Concurrent reception of GPS, GLONASS, Galileo and BeiDou Anti-spoofing and anti-jamming PMOD compatible and easy to integrate into third-party hardware Pre-certified and validated electronics Easy integration with EDGE Connect for full cellular connectivity REACH & RoHS Compliant

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User Guide



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Introduction

1.

The **Taoglas EDGE™ Locate** solution is an energy efficient IoT platform that provides high precision GNSS location for both large scale and niche navigation and autonomous applications in an off-the-shelf, compact form factor.

The Taoglas EDGE[™] Locate GNSS L1/L2/E5b combines the antenna, RF electronics and receiver technology in a single package delivering reliable high accuracy positioning.



Key Benefits

- Integrated u-blox ZED-F9P module for Multiband RTK to enable cm level positioning.
- Integrated Taoglas Antenna to maximise RF performance.
- Fast time to market, with an accurate navigation solution ready to use out of the box.
- Small form factor for ease of integration into your design.
- Industry standard UART & USB interfaces available.

Please contact your regional Taoglas customer service team for more information and installation guidelines.

Typical Applications





Micro Mobility



Agriculture and Machine Control



Robotic

Guidance



Survey and Mapping









What's in the box?

- Quick Start Guide 1.
- Taoglas EDGE Locate 2.
- 3. Micro-USB cable
- 4. USB adapter



 connection.
 4. Start u-center and select the menu item "Receiver" > "Connection" and then the To connection and then the To connection are received the Fix Mode status in the Data View will change DOVCNSS and eventually to
 you will have to determine the correct one using the Device Manager.

See www.taoglas.com/iot-support/ for detailed installation instructions.

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is available.

to 3D/DGNSS and eventually to 3D/DGNSS/Fixed if a FIXED RTK solution

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For further information on the antenna used, the AGPSF.36, please refer to the Datasheet For further information on the GNSS receiver used, the ZED-F9P, please refer to the Datasheet



3. U-Center Install

1.	Donwload and install u-center from https://www.u-blox.com/en/product/u-center		Open Open income window ✓ Open with Code Edgrack All 7-24Y
	Once Downloaded, extract the installer from the zip file by right-clicking on it and selecting "Extract All".	u-centersetup_v1 9.11.01.zip	Chi, Shat > Pin to Shat > Can with Windows Defender Life Share Open with > Give access to > Restore previous versions > Segd to > Cut > Copy Create ghoricut Delete Rename Properties
2.	Navigate into the newly extracted folder and double click the installer. You will be presented with a screen asking you to allow the installer to make changes, click 'Yes' . Once the installer opens, you will be presented with the screen below, asking you to select a language. Select the language you wish to use and click 'OK' . Click 'Next' on the welcome screen to start the installation process.	Installer Language	Contract, v18.10 Statur Contract, v18.10 Stat
3.	Please read through the license agreement and click 'I Agree ' to the terms.	' if you agree	events/v1835/stup
4.	Click 'Next' on the install components screen.		Contracts, 1913 Statu Contract, 1913 Statu Contract, 2013 Status St
5.	Then keep the default instalation location and click 'install' .		Constraint Location Constraint Cons
6.	Once the installation is completed, click 'Finish '. U-center is r	now installed.	Completing u-contror_v19.10 Setup u-center_v19.23.3has been rotabled on your computer. Cod.Preve to dreas Sease. Cod.Preve to drease. Cod.



1. Connect the EDGE Locate module to the USB Adapter interface board as below.



2. Connect the micro-USB included in the package to both the interface board and your PC.



If you have an active internet connection, the driver required for this USB interface will install automatically in the background.

 Open u-center, to do this, press the Windows key and scroll down in the applications window to the u-blox folder. Click the folder to expand it and click 'u-center' to start it.



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This will open a window similar to the one below.





- 4. To connect the EDGE Locate module:
 - a. Select receiver > 'baudrate' > '38,400'



b. Select receiver > Connection > 'COMXX', where XX is the COM port which the EDGE Locate is connected to.



Once the correct port is selected, the communication setup is complete.

To confirm communication with the EDGE Locate, select 'View' and then 'Text Console'.

A window should appear displaying NMEA sentences as they are sent from the module.





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