



# Arduino MKR GPS Shield

The low power Global Navigation Satellite System receiver shield for your georeferenced projects

SKU: ASX00017

Country of origin: IT

Taric: 854231

EECN: EAR-99

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## Overview

The MKR GPS Shield is based on the u-blox [SAM-M8Q](#) GNSS (Global Navigation Satellite System) module.

This module is designed to operate with different positioning services concurrently. It receives and processes the signals from [GPS](#), [GLONASS](#) and [Galileo](#). It interfaces with Arduino boards either through a serial interface, when used with headers and put on top of a MKR board, or through an I2C interface and a dedicated ESLOV cable supplied as bundle.

Our [Arduino\\_MKRGPS](#) library handles the two different interfaces and offer a consistent set of APIs designed for a full usage of the GPS acquired information

## Tech Specs

Connectors	ESLOV MKR headers
Input Voltage	3.3V
Operating Voltage	3.3V
Backup battery	CR1216
Communication	Serial1 I2C / DCC
GNSS receiver	u-blox <a href="#">SAM-M8Q</a>
Length	45 mm

Width	25 mm
Weight	14 gr.

## Documentation

### OSH: Schematics

The Arduino MKR GPS Sheld is open-source hardware! You can build your own board using the following files:

[EAGLE FILES IN .ZIP](#) [SCHEMATICS IN .PDF](#)

Please note: Galileo reception is disabled by default, but can be enabled by sending a configuration message (UBXCFG-GNSS) to the receiver. You can find a detailed description of the protocol [here](#).