

ARDUINO MKR GPS SHIELD

Code: ASX00017



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

GNSS receiver	u-blox module SAM-M8Q (datasheet)
Connectors	MKR headers / Eslov
Input Voltage	3.3V
Operating Voltage	3.3V
Backup battery	CR1216
Communication	Serial / I2C / DCC
Length	45 mm
Width	25 mm
Weight	14 gr.

If you are experimenting with monitoring fleets, high-altitude scientific experiments, or any kind of project requiring localization of devices, the MKR GPS Shield will offer you the functionality you need, and it is plug 'n' play!



The MKR GPS Shield is based on the u-blox SAM-M8Q GNSS (Global Navigation Satellite System) module. It is meant to be used on top of boards in the MKR format, but thanks to its Eslov connector, it is also possible to hook it up to any board having that kind of connector available using a cable.

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.

Configuration Commands and Backup

The GPS module can be configured via special commands. We have included an on-board battery holder for the system to keep the configurations made via software. This can be convenient when e.g. changing the operation mode of the GPS to 1g, something common in high altitude experiments, where specific settings away from the default ones are needed for the device.