



SmartGPS Board

SmartGPS Board is a compact solution for adding GPS functionality to your device. It features popular ublox [LEA-6S](#) module, power supply circuit, USB and antenna connectors, li-polymer battery for data retention and IDC10 header for connection with the target board. Board has DIP switches for flexible choice of communication lines with various development systems. Communication is done using UART or USB interface. Board can be used with a microcontroller, or data can be acquired using PC application through USB. All communication lines can be driven with 3.3V or 5V logic.



Technical Specifications

Applications

Easily acquire GPS data with minimum settings and with lots of flexibility. Board features one of the most popular LEA modules on the market.

Key features

- ▶ Accelerated acquisition of weak signals.
- ▶ Once acquired, satellites are passed on to a power-optimized dedicated tracking engine.
- ▶ Simultaneously track up to 16 satellites while searching for new ones.
- ▶ High-level of immunity to jamming

Operating Voltage

Board is designed to use either 3.3V or 5V power supply. Use Supply Select Jumper to select voltage level of communication lines and power supply.

Key Benefits

- ▶ Supports active and passive antennas. Comes with a Li-Ion battery
- ▶ Flexible pin selection using on-board DIP switches
- ▶ Three separate powering options
- ▶ Ready-to-use examples save development time

MIKROE-1381 **SmartGPS Board**

MIKROE-362 **SmartGPS Board with antenna**

Optional:

MIKROE-363 **Active GPS Antenna**

MIKROE-372 **SMA right angle female connector for PCB**