Ublox NEO 6M GPS Module Built-in Compass 5983

1.GPS and Compass Integration: This module combines a GPS receiver with a compass (often based on the HMC5983 or similar magnetometer) in one package. The compass provides magnetic field data, which is essential for determining heading or orientation.

2.u-blox NEO-6M GPS Receiver: The NEO-6M is a well-known GPS receiver that can acquire data from multiple satellite constellations (GPS, GLONASS, Galileo, BeiDou, etc.) to provide accurate positioning information.

3.High Accuracy: This module offers high-precision positioning with support for Real-Time Kinematic (RTK) correction, which can provide centimeter-level accuracy when paired with an RTK base station.

4.Serial Communication: It communicates with a host microcontroller or autopilot system (such as

APM or Pixhawk) through a serial interface (typically UART), making it compatible with various platforms.

5.Configuration Options: The module can often be configured to output specific NMEA messages or binary data formats to meet the requirements of your application.

6.Widespread Compatibility: It is compatible with popular open-source autopilot systems like ArduPilot (used with APM and Pixhawk flight controllers) and can be integrated into various autonomous systems for navigation and waypoint tracking.

7.Compact Form Factor: The module is small and lightweight, making it suitable for use in UAVs, drones, robotics, and other applications where size and weight are critical


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