GPS8100-S Module

Order#: GPS8100-S

GPS is short for Global Positioning System. GPS8100-S module is a new ARM based embedded GPS module based on JRC GPS receiver module G591 which allows to connect to Embest Devkit8000, Devkit8500D and SBC8530 boards to get position and altitude. The GPS8100-S module has a tiny patch board which can connect to Embest board through the UART (the serial port) from the expansion connector. It is a high sensitivity module with low power consumption.

GPS8100-S Module

GPS8100-S Module System Diagram

Features

- L1 band (1575.42MHz) Receive Frequency

- Supports up to 88 channels (with 66 search channels and 22 simultaneous tracking channels

- Chipset: JRC GPS module

- Operating Temperature: -40 °C to +85 °C

- Storage Temperature: -40 °C to +125 °C

- Output data format: NMEA0183V3.01

- Position accuracy: 3 meters (without Aid)/2.5 meters (DGPS)

- Operating Voltage: 1.8V/3.3V

- Data Update cycle: One second

- Cable length: 5M

- Hot Start (approximately): 1.5s

- Warm Start (approximately): 34s

- Cold Start (approximately): 35s