

MOD-GPS GPS SIRF STAR III MODULE WITH INTERNAL PATCH ANTENNA 2 METER CABLE AND UEXT CONNECTOR**INFO:**

We have evaluated about dozen of different GPS receivers before selecting this one and we found this to be the most sensitive and with the least power consumption of all devices we tested (Mstar, Skytraq etc), we found that SIRF STAR III chipset allow satellite tracking even withing buildings and with the only 38mA power consumption this device beats all other we have tested.

FEATURES:

1. Built-in SiRF Star III chipset
2. 200,000 effective correlators for fast TTFF
3. 20 channels "All-In-View" tracking
4. Cold/Warm/Hot start time: 42/38/1 sec. (average)
5. Reacquisition time: 0.1 sec.
6. Superior sensitivity: -159dBm tracking
7. Ultra low power design (38mA, typical)
8. Frequency L1, 1575.42MHz
9. C/A Code 1.023MHz chip rate
10. Power DC 3.3 ~ 6V, typical 5V
11. Internal Back-up battery 3.0V, 5.5mAh, Lithium battery
12. Back-up Current 7 μ A typ.
13. Update Rate 1 Hz (max.)
14. Accuracy Position 5 - 25m CEP without SA
15. Velocity 0.1m/sec, without SA
16. Time 1 μ s synchronized to GPS time
17. Altitude <18,000m (60,000 feet)
18. Velocity <515m/sec (1,000 knots)
19. Acceleration <4G
20. Motional Jerk 20m/sec³ max.
21. GPS Protocol NMEA0183
22. **Interface RS232 CMOS, 19200 bps, 8N1**
23. Build-in low noise, high gain active antenna
24. UEXT connector allow this device to be interfaced to all Olimex boards with UEXT connector
25. Super-cohesive magnetic for installation
26. Operating Temperature -40 °C ~ +85 °C
27. Storage Temperature -55 °C ~ +85 °C
28. Relative Humidity 5% to 90% non-condensing
29. Size: 47.0 (L) X 39.0 (W) X 16 (H) mm
30. Weight: 66.6g

DOCUMENTS:

1. n.a.

HARDWARE:

1. n.a.

SOFTWARE:

1. PIC-LCD3310 demo code for compass, tracking, homing

ORDERING CODES:

MOD-GPS water proof sealed with magnet for attachment to metal surfaces, with 2 meter cable for UEXT connector