

Product Specifications

GPS DataLogger

iGDL-L80



| Item | Specification | | |
|------------|------------------------------|----------------------|----------------------------------|
| GPS Module | L1 Band Receiver | Channel | 22 (Tracking) / 66 (Acquisition) |
| | | C/A code | WAAS, EGNOS MSAS, GAGAN |
| | Horizontal Position Accuracy | Autonomous | <2.5 m CEP |
| | Velocity Accuracy | Without aid | <0.1m/s |
| | Acceleration Accuracy | Without aid | 0.1 m/s ² |
| | Timing Accuracy | 1PPS out | 10ns |
| | Reacquisition Time | | <1s |
| | TTFF@-130dBm with EASY™ | Cold Start | <15s |
| | | Warm Start | <5s |
| | | Hot start | <1s |
| | TTFF@-130dBm without EASY™ | Cold Start | <35s |
| | | Warm Start | <30s |
| | | Hot start | <1s |
| | Sensitivity | Acquisition | -148dBm |
| | | Tracking | -165dBm |
| | | Reacquisition | -160dBm |
| | Dynamic Performance | Maximum Altitude | Max.18000m |
| | | Maximum Velocity | Max.515m/s |
| | | Maximum Acceleration | 4G |
| | Power supply | | 2.8V ~ 4.3V |
| | Power Acquisition | | 25mA |

| | | |
|------------------------------|---|--------------------------|
| | Power Tracking | 20mA |
| | Power Saving | 3mA@AlwaysLocate™(Note1) |
| | | 7uA @Backup Mode |
| | | 1mA@Standby Mode |
| | | 1mA@Standby Mode |
| General Specification | ARM Cortex™ –M3 32 bit RISC | |
| | High-Speed Embedded memories (Flash memory up 128 Kbytes) | |
| | IP 65 Housing | |
| | Operates on 3.7 V – 4.3 V DC | |
| | Size of enclosure 199x99x45 mm only | |
| | iGDL-L80 is very compact design | |
| | Weight 60 grams | |
| | 2000 mAh Lithium-ion battery | |
| | 24 Hr Battery Backup | |
| | Temperature Range between (-)5 to (+) 65 Deg C | |
| | Working with 95% Humidity | |
| | USB Charging | |
| | USB Communication | |
| | Providing less than 10 meters of Positional Accuracy RMS | |
| | LED Display for GPS and Power Status | |
| Software Features | Easy Data Download through USB | |
| | Data export to CSV, Excel, PDF Format | |
| | Data can be plotted on Google Map | |
| | Data Storage of 1 Lac points | |
| | Configurable data frequency minimum of 1 Seconds | |