

Hardware Specifications for UGR86

20th January, 2017



GPS Module Specifications

| | |
|---|---|
| GPS L1 Band Receiver | 1575.42MHz |
| GLONASS L1 Band Receiver | 1601.71MHz |
| Channels | 33 (Tracking) / 99 (Acquisition) |
| 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 (1 PPS out) | 10 ns |
| Environmental | |
| Operating Temperature | -40 ⁰ to +85 ⁰ C |
| Storage Temperature | -45 ⁰ to +125 ⁰ C |
| Cold Start | <35s |
| Warm Start | <30s |
| Hot Start | <1s |
| Sensitivity | |
| Acquisition | -149dBm |
| Tracking | -167dBm |
| Reacquisition | -161dBm |

Other Hardware Specifications

| | |
|-------------------------|---|
| Interface | USB 2.0 External Antenna (optional) |
| Antenna | recommended antenna AA.107.301111 with 3M cable length |
| Internal Battery | 3.7 v 1100mAh LI-ION Battery (optional) |
| LED's | Yellow – GPS Green – PC connection |
| Dimensions | 79mm x 48mm x 28mm (L, B, H) |

