

Radian IS

L1/L2 Integrated System



Radian IS Receiver Specifications

| Position Accuracy ^a RTK ^b Static, Rapid Static ^c Kinematic, Stop-and-Go Differential GPS (DGPS) | 1.0 cm + 1 ppm (horizontal)—2.0 cm + 1 ppm (vertical) 0.5 cm + 1ppm (horizontal)—1.0 cm + 1 ppm (vertical) 1.0 mm + 1 ppm (horizontal)—2.0 cm + 1.0 ppm (vertical) 0.45m CEP | |
|---|--|--|
| Channels | 12 x L1 and 12 x L2 with full code and carrier | |
| Time to First Fix Cold Start Signal Reacquisition Data Rates | 50 sec 0.5 sec L1, 6 sec L2 10 HZ | |
| Operation | Single button operation (power, receiver reset and clear memory) | |
| Display | LED display status indicators | |
| Status Indicators | Power, battery life, satellites tracked, RTK transmission, available memory and occupation timer | |
| Memory | Internal, removable Compact-Flash memory card (8MB card provided) | |
| Integrated Antenna ^d | Internal GPS antenna (L1/L2) with Pinwheel Technology, <1mm phase center offset and mulitpath rejection equivalent to choke ring antenna | |
| Physical Characters Weight Size (max. d. x h.) | 1.6 kg (3.5 lb) 23 cm x 15 cm (9 in x 5.9 in) | |
| Environmental Operating Temperature Operating Temperature with batteries Storage Temperature Water Resistance Shock | -40°C to +55°C (-40°F to +131°F) -20°C to +55°C (-4°F to +131°F) -40°C to +85°C (-40°F to +185°F) RTCA/DO-160 Sec. 10 Cat. R, (equivalent to IPX4) 2m pole drop/1m stand alone | |
| Power Requirements Power Input Logging Sleep Mode Batteries Operating Time | +9 to +18 Volts DC 4 W (typical) 0.25 W 4 x BDC46 batteries provided (1.3 Ah, 7.2 VDC, Li-ion) 4.5 hours for 2 internal batteries (no peripheral output) | |
| External Ports | 2 x R232, 1 x external power port, | |
| Standard Input/ Output Formats | RTCA, RTCM, CMR, NMEA-0183 out, PPS out, Mark out | |
| a. Accuracy depends on the number of satellites used, obstructions, satellite geometry (DOP), c. 9 occupation time, multipath effects, atmospheric conditions, baseline length, survey d. 0 procedures and data quality Des b. 1 sigma | | c. 95% confidence level d. GPS antenna calibration performed using US NGS Design and specifications are subject to change without notice |

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