

PLGR+96™

Precision Lightweight GPS Receiver

*Advanced battlefield maneuvering with P/Y code
autonomous positioning accuracy to 4 meters CEP*

To address the increasingly demanding requirements of infantry missions, Rockwell introduces PLGR+96™ - the most advanced version of the U.S. Department of Defense standard handheld GPS receiver, PLGR.

In addition to retaining the low price, extended battery life and advanced navigational features of PLGR+, PLGR+96 incorporates advanced P/Y code positioning technologies to increase your unit's accuracy. Secure Differential GPS (SDGPS) allows the user to accept differential correction without zeroizing the unit. Differential accuracy can be less than one meter, depending upon the type of differential service selected by the user. Other new features include:

- Wide Area GPS Enhancement (WAGE) for *autonomous* positioning accuracy to 4 meters CEP
- Jammer direction finding
- Targeting interface with laser range-finder
- Remote display terminal capability
- Advanced user interface features



*Upgrade capability and simple integration
make PLGR+96 the right GPS choice*

PLGR+96 is flexible enough to meet the needs of a wide variety of military users. In addition to handheld operation, the PLGR+96 units can be installed into various armored vehicles and airborne platforms with an optional vehicle-mount accessory. PLGR+96 can also be reprogrammed on-site at a rate of up to 500 units per day, minimizing downtime as PLGR units are upgraded with the latest secure GPS capabilities.

With a sophisticated high rate production line, Rockwell is able to meet even the most demanding delivery schedule. If you participate in our unique leasing program, you can even receive your Precise Positioning Service* (PPS) PLGR+96 units within 30 days of placing your order.

With the advancements of PLGR+96, Rockwell should remain your only choice when providing secure military GPS needs.

GPS

PLGR+96

Precision Lightweight GPS Receiver

PLGR+96 is available in both Precise Positioning Service (PPS)* and Standard Positioning Service (SPS) versions.



System Characteristics

Dynamics:	Velocity: PPS - 1,200 m/sec. max.* SPS - 514 m/sec. max. Acceleration: 9g maximum
Time Accuracy:	100 nanoseconds
Position Accuracy:	SDGPS: Submeter Accuracy** WAGE: < 4 meters CEP* PPS: < 16 meters SEP* SPS: < 100 meters SEP
Acquisition Time:	Time-to-first-fix < 90 sec. Time-to-subsequent-fix < 60 sec
Velocity Accuracy:	0.03 m/sec. RMS steady rate
Storage Capacity:	999 usable waypoints 15 user-definable reversible routes of up to 25 legs each
MTBF:	>15,000 hours
Battery Life:	BA5800/U** - 27 hours AA Lithium - >10 hours 8 AA Alkaline - 10 hours NiCad - 4 hours
Coordinate Systems:	8 pre-defined, 3 user-defined
Datums:	50 pre-defined, 2 user-defined

Interfaces

ICD-GPS-153, including 1 pulse per second in, 1 pulse per second out
RS-232 or RS-422
KYK-13 / KOI-18 / AN/CZY-10 / DS-102*
NMEA 0183
Viper™ Laser Range-Finder
Remote Display Terminal
Direct RTCM SC-104 (DGPS)
HAVE QUICK (SS110990)
SINGARS
PLGR Precise Time (SS-M/V-500)
External power (9 to 32 VDC from 5W source)
External antennas
PLGR+96™ to PLGR family of products

Specifications subject to change without notice.

Advanced User Interface Features

Enhanced satellite vehicle (SV) selection for reduced re-acquisition time
"Man-Overboard" function for automatic navigation to a marked waypoint
Hot key toggles between Tracking and STBY modes
Hot key for quick waypoint advance
Self-zeroized warning
Display of minutes since fix after transition to STBY
Mission rehearsal

Physical Characteristics

Weight: 2.7 pounds (with batteries)
Temperature Range: -20° C to +70° C
(-57° C to +70° C storage)
Humidity: 0 to 100% (no precipitation)

Options and Accessories

- Keyboard Menu Definition Editor (KMDE™)
- External power sources and batteries (nicad, lithium, alkaline)
- Vehicle installation mount
- Remote display
- NiCad battery charger
- PC mission planning software with remote control
- Remote antennas
- Interface, power and antenna cables

Some accessory requirements are not guaranteed to meet V'PLGR specifications. Call for accessory details and prices.

* Export of PPS units is authorized for GPS Memorandum of Understanding countries only. PPS security modules must be obtained through Foreign Military Sales (FMS) procurement.

** BA5800/U battery must meet MIL-B-49430(ER) standards.

+ Accuracy dependent upon type of differential service selected.

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