



 **roketsan**

ALDEBARAN
GPS and GLONASS Receiver





ALDEBARAN GPS and GLONASS Receiver

ALDEBARAN GPS and GLONASS Receiver is a flight proven receiver that is verified and qualified for usage at different guided munitions and platforms. With its broad dynamic range of operation and operability at severe environmental conditions, it is a dynamic receiver that can produce solutions at GNSS signal degraded environments. Since the receiver uses civilian GPS and GLONASS signals, it can also be used at civilian applications.

Technical Specifications

Channel Count	12 GPS L1, 8 GLONASS L1, 2 SBAS
Horizontal Position Accuracy ¹	≤ 6 m (RMS) Static ≤ 10 m (RMS) Dynamic
Vertical Position Accuracy ¹	≤ 10 m (RMS) Static ≤ 15 m (RMS) Dynamic
Velocity Accuracy ¹	≤ 0.1 m/s (RMS) Static ≤ 0.5 m/s (RMS) Dynamic
Date Rate	≥ 5 Hz Measurements ≥ 5 Hz Position
Time To First Fix	≤ 40s Cold Start ≤ 10s Hot Start
Reacquisition Time	1 s
Dynamic Range	
Velocity ²	≥ 1400 m/s
Acceleration	±10 g (Operational) ±65 g (Survivability)
Altitude ²	≥ 40000m
Power	26-30V, nominal power usage 12 W
Electrical Interface	Full-duplex and half-duplex RS 485 interfaces RS 232 Debug interface USB interface for software update
Volume	Diameter :149 mm Height : 49 mm
Mass	826 grams
Temperature	-40°C +85°C (Operational)

ALDEBARAN GPS and GLONASS RECEIVER

All electronic, mechanical and software design is made by using national resources.

VERIFIED and QUALIFIED PRODUCT

GPS and GLONASS receiver is verified and qualified in accordance with Mil-STD 810F, Mil-STD 461E and ESA 22900 standards.

SOFTWARE DEFINED DESIGN

GPS and GLONASS receiver is software defined receiver. Thus, it can easily be modified to different global navigation satellite systems' signal structures and it can easily be modified to meet different platform needs.

VARIOUS PLATFORMS

GPS and GLONASS receiver which is qualified for military usage can be used for various platforms at land, sea or air.

[1] Typical value for GDOP < 2.5, Accuracy depends on GPS and GLONASS system and signal characteristics, ionospheric and tropospheric conditions, multipath effects, existence of jamming and spoofing signals

[2] Subject to export license for velocities bigger than or equal to 515 m/ and for altitudes higher than 18000 meters



Kemalpaşa Mah. Şehit Yüzbaşı Adem Kutlu Sok.
No:21, 06780 Elmadağ, Ankara / Turkey
Phone: + 90 (312) 860 55 00 Fax: + 90 (312) 863 42 08
marketing@roketSan.com.tr

www.roketSan.com.tr