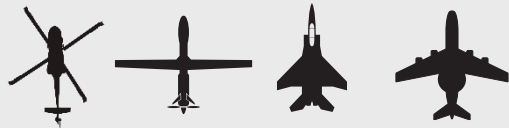


SKYLIGHT™

Dual Civil/Military GNSS

Mono or bi-constellations GNSS Receiver

SKYLIGHT™ is a mono or bi-constellations dual civil/military GNSS receiver, providing the highest navigation performances and operational flexibility. It is suitable for a large range of applications: aircrafts, helicopters, UAVs, missiles, land vehicles, ...



MONO OR BI-CONSTELLATIONS

Modular capabilities for Galileo or/and GPS:

- PRS (Subject to Gov. Authorizations)
- P(Y) / M-Code (Subject to Gov. Authorizations)
- GPS C/A

DUAL FREQUENCIES RECEIVER

- Galileo : E1/E6
- GPS: L1/L2

CERTIFICATIONS

- GPS C/A SBAS (TSO-C145 / DAL-B)
- Military GPS or Galileo (DAL-C)
- LPV Guidance function available in option

PNT CAPABILITIES

- Specific military grade anti-spoofing and anti-jamming algorithms
- Possibility to be upgraded with atomic clock capabilities (option)

Technical specifications

AVAILABLE CODE	
CODE	M-CODE AND P(Y) PRS GPS C/A SBAS
CERTIFICATION	
DESIGN ASSURANCE	DAL-C (MILITARY FUNCTIONS) DAL-B (GPS C/A SBAS)
TSO-C145	GPS C/A SBAS
TSO-C146	LPV (OPTION)
PERFORMANCE	
FREQUENCY	GALILEO : E1/E6 GPS : L1/L2
NAVIGATION ACCURACY	CEP50 < 1 M
PHYSICAL	
SIZE	234 X 207 X 80,5 MM 234 X 207 X 130,5 MM (OPTION WITH ATOMIC CLOCK)
WEIGHT	2,6 KG 3 KG (OPTION WITH ATOMIC CLOCK)
POWER SUPPLY	28 V
TIME/KEY MAINTENANCE	LI-SOCL2 BATTERY
POWER SUPPLY	28 V

INTERFACES	
INPUTS	1RF ANTENNA 1 DS-101 (KEY LOADING GPS) 1 DS-101 (KEY LOADING GALILEO) 1 PPS IN 1 RS-422
OUTPUTS	4 ARINC429 1 RS-422 2 PPS OUT
TIMING	HAVE QUICK, 1PPS, TIME MARK
GNSS DATA	ICD-GPS-153 A/C (ARINC) NMEA 0183 (RS-422)
ENVIRONMENT	
TEMPERATURE	-45 C TO + 85 C
ALTITUDE	45,000 FEET
HUMIDITY	DO-160G, CAT. A
VIBRATION	MIL-STD-810H, CAT 13, PROC. I
CHOCK	DO-160G, SECTION 7, CAT. B
EMC/HIRF (CONDUCTED)	DO-160G, CAT. Y
EMC/HIRF (RADIATED)	DO-160G, CAT. G AND F
LIGHTNING	DO-160G CAT A4

