

Integrated GNSS/INS System

EGIS-N1000K

(Embedded GNSS/INS System)



Continued 3D Navigation
Solutions for various
battlefield environments

Compact Light Tactical Grade
Navigation System

Field-proven RLG IMU Applied



Overview

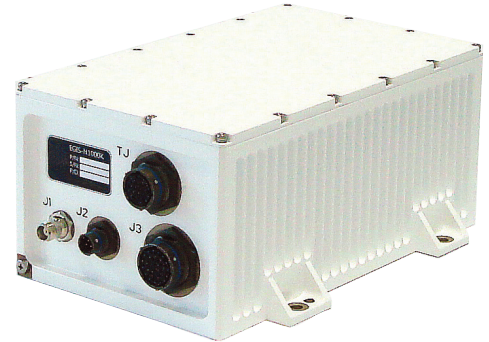
- Real-time information for various weapon systems - accurate location, speed, attitude, etc.
- Selective tactical grade IMU for applications.
- Updated multi-sensor integrated technology applied adopting modularized system architectures for various customer needs.
- EGIS algorithm application with proven various weapon system applications.

Applications

- Military Aircraft, UAV
- Tank, Armored Vehicle, Military Vehicle
- Unmanned Vehicle, Autonomous Robot Vehicle
- GIS Information Land Survey Vehicle, etc.

Features

- Continued 3D navigation information provided even in GNSS radio shadow areas(tunnels, concrete jungles)
- Inertial Sensor, GNSS, VMS based Extended Kalman Filter technology applied
- Automatic switchover to optimum navigation mode depending on operation environment (GNSS/INS/VMS/ZUPT)
- Store & start sorting function applied to minimize initial start-up time
- Optional for DGPS & RTK
- Postprocessing solution provided for improving location accuracy of real-time trajectory
- System set-up function for various operational environments
- Military environmental standards satisfaction credibility providing high credibility in inadequate battle field environments
- Excellent price competitiveness with similar performing equipment from overseas



Specifications

Product Feature			Specifications
Navigation Accuracy ¹⁾	GNSS link ²⁾	Location	Horizontal: 10 m CEP / Vertical: 10 m PE
		Position(RMS)	Roll: 0.2° / Pitch: 0.2° / Yaw: 0.5°
	GNSS no-link ³⁾	Location	Horizontal: 0.8% DT CEP / Vertical: 0.5% DT PE
		Position(RMS)	Roll: 0.5° / Pitch: 0.5° / Yaw: 2.0°
Sorting Time		start/store/mobile	5min. / 1min. / 10min.
GNSS Receiver		Support Freq. ⁴⁾	GPS L1, L2, GLONASS L1
Interface		Output Data	Location, Speed, Attitude, Time, etc.
		Output Rate	1~100 Hz selection possible
		Input/Ourput ⁵⁾	RS-422 (2 Port), RS-232 (2 Port), VMS
Power		Input Voltage	12~34 VDC (28 VDC nominal)
		Power Consumption	17 W(nominal) / 24 W(max)
Environmental/ Electric Wave		Environmental	MIL-STD-810F
		Electric Wave	MIL-STD-461F
Physical		Size	150(W) x 113(H) x 250(L) mm
		Weight	< 4.3 kg

1) Selective options for required Accuracy spec.

2) Below 1m for DGPS link, Below scores of cm for Post-processing

3) Navigation accuracy condition for INS+VMS link

4) Standard Specs: GPS L1, additional frequency optional

5) Optional Specs: MIL-STD-1553B, CAN-Bus