

EPSILON 20

INERTIAL LAND NAVIGATION & ORIENTATION UNIT



- > AUTONOMOUS GYROCOMPAS
- > INNOVATIVE READY-TO-GO SOLUTION
- > OUTSTANDING RELIABILITY
- > FULLY INDEPENDENT FROM GPS



EPSILON20

Inertial land navigation & orientation unit

Capitalizing on Sagem's 60-year experience in inertial technologies, *Epsilon20* is an innovative and high performance land navigation unit providing accurate position and angles even in case of GPS outage.

Thanks to its advanced vibrating gyros and its innovative alignment method, *Epsilon20* achieves a breakthrough by providing accurate data quicker than any other inertial navigation system.

Easily integrated in any vehicles, *Epsilon20* has a straightforward design for mobile systems such as:

- Satcom-on-the-move systems
- Modern mining systems
- Survey vehicles
- Autonomous vehicles

Performances without GPS	100 series	200 series
Horizontal position	0.8% DT (CEP)	0.5% DT (CEP)
Vertical position	0.5% DT (EP)	0.5% DT (EP)
Heading	0.5° (RMS)	0.25° (RMS)
Pitch & Roll	0.25° (RMS)	0.125° (RMS)

DT: distance travelled



Satcom-On-The-Move ©SAAB

With a proven outstanding reliability, *Epsilon20* is the most cost effective navigation and orientation solution in the world.

As a world leader in navigation and with its customer oriented organization, Sagem always provides the support you deserve.

- Fast initialization
- Optimized size, weight & power
- Cost-effective solution

Technical specifications

Navigation data available within 1 minute

MTBF

- > 50,000 hours

SWaP

- Size: 273 x 136 x 210mm
- Weight: < 5kg
- Power: < 28W

Power supply

- 18-32 V

Environments

- Operating temperature: -37°C to +60°C
- Storage temperature: -37°C to +70°C
- IP67
- 1,000 shocks half-sine 25g 6ms

Interfaces

- RS422-RS232
- CANBUS
- GPS interface: NMEA-0183 Protocol

C/A code DGPS ready

Sagem may, at any time and without notice, make changes or improvements to the products and services offered and/or cease producing or commercializing them. Sagem is the commercial name of the company Sagem Défense Sécurité - Printed in France - © Sagem, Finland - D1527 - 04/2012

SAGEM

Arcs de Seine - 18/20 quai du Point du Jour - 92659 Boulogne-Billancourt Cedex - France
 Tel.: + 33 1 55 60 39 31 - Fax: + 33 1 55 60 38 95 - www.sagem.com
 Email: navigation@sagem.com

