

Plisa X

Navigation core for autonomous platforms

Plisa X combines satellite positioning and inertial navigation in a compact OEM module. The device generates a high-rate data stream with platform position, velocity, attitude and dynamics for control, stabilization and measurement tasks.



<p>up to 1600 Hz navigation packet</p>	<p>up to 6400 Hz IMU data</p>	<p>40 x 30 x 8 mm compact form factor</p>	<p>5...17 V wide supply range</p>	<p>-40...+85 °C operating range</p>
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Applications



UAVs



Ground robots



Autonomous vehicles



Marine platforms



Mobile mapping



Test and measurement

Satellite systems

GPS, GLONASS, Galileo, BeiDou, SBAS, QZSS

Output data



Position



Velocity



Attitude



Dynamics

Interfaces and connectivity

Ports	USB Virtual COM Port, TTL UART, RS-485
UART/RS-485	selectable up to 8M
Protocol	binary telemetry; detailed ICD supplied separately

With GNSS correction of the inertial solution available. CEP - circular error probable; RMS - root-mean-square estimate. Actual values depend on motion profile, installation and calibration.

Characteristics

Performance	
Navigation packet	up to 1600 Hz
IMU data	up to 6400 Hz
Position	1.5 m CEP*
Velocity	0.05 m/s RMS*
Attitude	roll / pitch ~0.5° RMS, heading ~1.0° RMS*
Inertial Measurement Unit	
Acceleration	selectable up to ±16 g; bandwidth up to 1650 Hz
Angular rate	selectable up to ±2000 deg/s; bandwidth up to 560 Hz
Power and operating conditions	
Supply	5...17 V
Power	~0.4 W
Temperature	-40...+85 °C
Dimensions	40 x 30 x 8 mm
Altitude	up to 80,000 m
Velocity	up to 500 m/s



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Made in Belarus