

RT3000

RT3000 Family Products



The RT3000 family products are advanced, precision Inertial and GPS Navigation systems for measuring motion, position and orientation.

They use Inertial Navigation System (INS) technology and combine this with the highest quality Survey Grade GPS receivers. The best attributes of Inertial Navigation Systems and GPS are blended together to give an optimum solution.

The systems improve the performance over GPS-only ones by providing accurate velocity in urban or tree-covered environments. The drift common to conventional Vertical Reference Units (VRU) or Stabilized Platforms is corrected automatically so that the RT3000 family products can be used indefinitely without drifting or needing to be reset.

Selecting the right RT3000 family product

The main difference between members of the RT3000 family is the accuracy of measurements. All members use the same processing platform, enclosure, cable connections, etc. The specifications for operating temperature, supply voltage and dimensions are all the same, or very similar across the range.

To help choose the product that is most suitable for you please use the table below:

Model	Position (metres)	Velocity (km/h)	Heading (deg)	Pitch Roll (deg)	Acceleration (m/s ²)	Ang Rate (deg/s)
 RT3200	3.0/SPS 1.0/DGPS	0.2	0.2	0.2	0.01	0.02
 RT3100	1.8/SPS 0.4/DGPS	0.1	0.1	0.05	0.01	0.01
 RT3020	0.2	0.08	0.1	0.04	0.01	0.01
 RT3002	0.02	0.05	0.1	0.03	0.01	0.01
 RT3050	0.5	0.08	0.1	0.04	0.01	0.01
 RT3040	0.1	0.07	0.1	0.03	0.01	0.01
 RT3202	3.0/SPS 1.0/DGPS	0.2	0.2	0.1	0.01	0.02

Links

Overview
Get an overview of the RT3000 family.

Technologies
Learn more about the technologies used in the RT3000.

Measurements
Learn more about the measurements made by the RT3000.

Operation
Operation of the RT3000 is very easy. Learn why.

Output Formats
Learn more about the output formats of the RT3000.

Connectivity
Learn more about how to connect your RT3000 to your current system.

	1.8/SPS 0.4/DGPS	0.1	0.1	0.05	0.01	0.01
	0.2	0.08	0.1	0.04	0.01	0.01
	0.02	0.05	0.1	0.03	0.01	0.01
	0.5	0.08	0.1	0.04	0.01	0.01
	0.1	0.07	0.1	0.03	0.01	0.01

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