

**Table 2. Performance Specification for the RT3000 Single Antenna Systems**

Product	RT3002	RT3020	RT3100	RT3200
Positioning	L1/L2 Kinematic	L1 Kinematic	SPS / DGPS	SPS / DGPS
Position Accuracy	2cm 1 $\sigma$	20cm 1 $\sigma$	1.8mCEP SPS 0.4mCEP DGPS	3.0mCEP SPS 1.0mCEP DGPS
Velocity Accuracy	0.05 km/h RMS	0.08 km/h RMS	0.1 km/h RMS	0.2 km/h RMS
Acceleration				
– Bias	10 mm/s <sup>2</sup> 1 $\sigma$	10 mm/s <sup>2</sup> 1 $\sigma$	10 mm/s <sup>2</sup> 1 $\sigma$	10 mm/s <sup>2</sup> 1 $\sigma$
– Linearity	0.01%	0.01%	0.01%	0.01%
– Scale Factor	0.1% 1 $\sigma$	0.1% 1 $\sigma$	0.1% 1 $\sigma$	0.1% 1 $\sigma$
– Range	100 m/s <sup>2</sup>	100 m/s <sup>2</sup>	100 m/s <sup>2</sup>	100 m/s <sup>2</sup>
Roll/Pitch	0.03° 1 $\sigma$	0.04° 1 $\sigma$	0.05° 1 $\sigma$	0.2° 1 $\sigma$
Heading	0.1° 1 $\sigma$	0.1° 1 $\sigma$	0.1° 1 $\sigma$	0.2° 1 $\sigma$
Angular Rate				
– Bias	0.01°/s 1 $\sigma$	0.01°/s 1 $\sigma$	0.01°/s 1 $\sigma$	0.02°/s 1 $\sigma$
– Scale Factor	0.1% 1 $\sigma$	0.1% 1 $\sigma$	0.1% 1 $\sigma$	0.2% 1 $\sigma$
– Range	100°/s	100°/s	100°/s	100°/s
Track (at 50km/h)	0.07° RMS	0.1° RMS	0.15° RMS	0.2° RMS
Slip Angle (at 50km/h)	0.15° RMS	0.15° RMS	0.2° RMS	0.3° RMS
Lateral Velocity	0.2%	0.2%	0.2%	0.35%
Update Rate			100 Hz	
Calculation Latency			3.9 ms	
Power			9-18 V d.c. 15W	
Dimensions (mm)			234 x 120 x 80	
Weight			2.2 kg	
Operating Temperature			-10 to 50°C	
Vibration			0.1 g <sup>2</sup> /Hz 5-500 Hz	
Shock Survival			100G, 11ms	
Internal Storage			500 MB	
Twin Antenna	No	No	No	No
Upgradeable GPS	Yes (RT3003)	Yes	Yes	Yes

Note: The single antenna units may be supplied in a smaller box, with a single antenna port. The dimensions are 243 x 108 x 68mm and the weight is 2.1kg. This box does not allow the single antenna system to be easily upgraded to dual antenna.