

SOKKIA

STRATUS

Integrated L1 GPS System



Stratus System

- Lightweight, fully integrated GPS receiver, antenna, memory and batteries in one rugged enclosure
- Windows® CE data collector and Stratus Controller software
- Spectrum® Survey Suite post-processing and adjustment software
- Heavy-duty, field-ready soft case

Static & Kinematic Applications

- As-built mapping
- Boundary surveys
- Control densification
- Establish station pairs
- Map utilities and natural resources
- Position aerial photo panels
- Road construction surveys
- Section corner surveys
- Topographic mapping



Your Lightweight GPS Solution

Stratus Specifications

Position Accuracy¹		
Static ²	5.0 mm + 1 ppm (horizontal)	10.0 mm +2 ppm (vertical)
Kinematic, Stop-and Go ³	12.0 mm + 2.5 ppm (horizontal)	15.0 mm + 2.5 ppm (vertical)
Channels		
	12 x L1 with full code and carrier	
Time To First Fix		
Cold Start	2 min	
Warm Start	40 sec	
Hot Start	15 sec	
Signal Reacquisition	1 sec	
Data Rate	1 Hz	
Interface		
Operation	Single-button operation for power, receiver reset and clear memory	
Display	LED display status indicators	
Status Indicators	Power, battery life, satellites tracked, available memory and occupation timer	
Memory	4 MB Internal	
Memory Life	55 hours at 10 s (8 satellites); 11 hours at 2 s (8 satellites)	
Integrated Antenna		
	Internal L1 GPS antenna	
Physical		
Weight (with batteries)	0.8 kg	1.8 lbs
Weight (without batteries)	0.6 kg	1.4 lbs
Size (d x h)	15.5 cm x 12.5 cm	6.0 in x 5.0 in
Environmental		
Operating Temperature	-20° C to +65° C	-4° F to +149° F
With External Batteries	-40° C to +65° C	-40° F to +149° F
Storage Temperature	-40° C to +85° C	-40° F to +185° F
Water Resistance	IPX4	
Shock ⁴	2.2 m pole drop; 1.0 m stand alone	7.2 ft pole drop; 3.3 ft drop stand alone
Communications and Serial Port		
	Infrared communications link (transfer rate up to 57,600 baud rate)	
Power Requirements		
	Cable communications link (transfer rate up to 115,200 baud rate)	
Power Input	Internal 7.2 VDC, External 8 to 16 VDC	
Batteries	2 x BDC46 rechargeable batteries	
Operating Time	30 hours at -20° C	30 hours at -4° F
Swapping	Hot swap between batteries without interrupting receiver operation	
HP iPAQ Controller (Recommend)		
Processor	400 MHz, Intel X-scale, 32 bit RISC	
Memory	64 MB RAM, 12 MB ROM	
Battery Type	950 mAh Lithium Rechargeable	
Battery Life	Up to 12 hours	
Charging Time	Up to 4 hours	
Weight	0.1 kg	5.1 oz
Operating Temperature	0° C to +40° C	+32° F to +104° F
Minimum Controller Specifications		
Operating System	Pocket PC 2003	
Processor	ARM	
Memory	16 MB RAM	
Communication	IrDA Port	
Resolution	240 x 320	
<ol style="list-style-type: none"> Accuracy depends on the number of satellites used, obstructions, satellite geometry (DOP), occupation time, multipath effects, atmospheric conditions, baseline length, survey procedures and data quality. Numbers shown are for baselines not exceeding 10 km. 95% confidence level. Kinematic and Stop-and-Go surveys require an initialization. Shock specifications based on receiver without cables attached. Design and specifications are subject to change without notice.		

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