### STRATUS Specifications

#### Position Accuracy
- **Static**
  - H: 5.0 mm + 1.0 ppm
  - V: 10.0 mm + 2.0 ppm
- **Kinematic, Stop-and-Go**
  - H: 12.0 mm + 2.5 ppm
  - V: 15.0 mm + 2.5 ppm

#### Tracking Capability
- **Channels**: 12 ± 1 with full code and carrier
- **Time to First Fix**: Cold Start 2 min, Warm Start 60 sec, Hot Start 10 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, satellite tracked, available memory, and occupation timer
- **Memory**: 4 MB Internal
- **Memory Life**: 15 hours at 15°C (9 satellites); 11 hours at 2°C (9 satellites)

#### Integrated Antenna
- **Internal L1 GPS antenna**

#### Physical
- **Weight (with batteries)**: 0.9 kg, 1.0 lb
- **Weight (without batteries)**: 0.6 kg, 1.4 lb
- **Size O x H**: 15.6 cm x 12.5 cm, 6.0 in x 5.0 in

#### Environmental
- **Operating Temperature**: -30°C to +65°C, -2°F to +149°F
- **With External Batteries**: -40°C to +65°C, -40°F to +149°F
- **Storage Temperature**: -40°C to +65°C, -40°F to +149°F
- **Water Resistance**: IPX4

#### Shock
- 2.2 m pole drop, 1.0 m stand alone
- 7.3 ft pole drop, 3.3 ft 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 - 16 VDC
- **Batteries**: 2 x 8C46A rechargeable batteries
- **Operating Time**: 36 hours at -20°C, 30 hours at -4°F
- **Swapping**: Hot swap between batteries without interrupting receiver operation

#### HP iPAQ Controller (Recommended)
- **Processor**: 400 MHz, Intel X-scale, 32 bit RISC
- **Memory**: 64 MB RAM, 12 MB ROM
- **Battery Type**: 910 mAH Lithium Rechargeable
- **Battery Life**: Up to 12 hours
- **Charging Time**: Up to 4 hours
- **Weight**: 0.1 kg, 0.2 lb
- **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**: 5/6A Port

#### Resolution
- 248 x 330

### HP iPAQ Controller
- **Processor**: 400 MHz, Intel X-scale, 32 bit RISC
- **Memory**: 64 MB RAM, 12 MB ROM
- **Battery Type**: 910 mAH Lithium Rechargeable
- **Battery Life**: Up to 12 hours
- **Charging Time**: Up to 4 hours
- **Weight**: 0.1 kg, 0.2 lb
- **Operating Temperature**: 0°C to +40°C, +32°F to +104°F

### Shock Specifications
- **1. 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.**
- **2. 95% confidence level.**
- **3. Kinematic and Stop-and-Go surveys require an initialization.**
- **4. Shock specifications based on receiver without cables attached. Design and specifications are subject to change without notice.**

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STRATUS
Integrated L1 GPS System

Stratus is the ideal solution for all of your static and kinematic surveying applications. It is compact and lightweight, yet rugged and reliable. The system includes an L1 GPS receiver, antenna, memory and batteries – all in one compact enclosure. The receiver is cable-free and fits conveniently on the pole or tripod. And Stratus is so easy to set up and operate. Just turn it on and you are ready to start surveying.

STRATUS Features

Compact, integrated design.
- L1, 12-channel GPS receiver, antenna, memory and batteries in one sealed enclosure
- Weighs just 0.8 kg (1.8 lb) with batteries

Reliable power and memory.
- Hot swap batteries for continuous surveying
- 4 MB of internal memory standard

Wireless communication.
- Infrared communication offers cable-free surveying experience

Versatile performance.
- Ideal for a variety of static and kinematic applications

Simple operation.
- Easy single-button operation
- LED indicators for battery life, satellite tracking status, remaining memory and integer-fixed occupation time
- Convenient base and rover setup

Accurate measurement.
- Achieve centimeter-level positioning for control and boundary surveying applications

Data Collection

Stratus Controller data collection software.
- Infrared interface provides communication between the data collector and receiver – no cables required
- Monitor and manage your receiver data
- Compatible with Pocket PC PDAs (HP iPAQ recommended)

Spectrum Survey Suite post-processing software.
- Complete Windows-based software package
- Supports commonly used methods of survey data collection, including static, rapid-static, kinematic and stop-and-go
- Provides all the tools you need to manage your project – from planning to processing, adjusting and analyzing GPS surveying data

The STRATUS System

- Integrated L1 GPS receiver, antenna, memory and batteries in one compact enclosure
- Microsoft Windows® CE data collector
- Stratus Controller software
- Spectrum Survey Suite post-processing and adjustment software
- Heavy-duty field case

The SOKKIA Difference

SOKKIA has been developing advanced products for surveying professionals around the world since 1920. We are very proud of our heritage. It is our mission to provide you with products of the highest quality so you can do the job right the first time – every time. And we support our products long after the sale is complete. With that kind of value, it is no wonder surveyors everywhere count on SOKKIA for their most important projects.