Precision controlled navigation.

Operating in a harsh dynamic environment requires rapid start-up and high accuracy for quick, confident decision making. These key elements translate to productive and safe mission completion. With that in mind, Rockwell Collins brings you NavStrike Standard Positioning Services (SPS), the latest addition to the proven family of Rockwell Collins GPS receivers.

Derived from the field-proven 12-channel NavStrike Precise Positioning Services GPS receiver, Rockwell Collins’ NavStrike SPS offers high performance GPS for tightly coupled GPS/INS (Global Positioning System/Inertial Navigation System) integrations. Using the most advanced GPS technology available to your advantage, NavStrike provides: all-in-view navigation, fast initial acquisition and fast cold start.

**KEY FEATURES**
- Enhanced acquisition/cold start
- 12-channel all-in-view tracking
- No need for active antenna electronics
- Field-reprogrammable software
- Designed for high-g vibration and shock
- High-speed serial interface
- Field clock recalibration for extended storage

**KEY BENEFITS**
- 12-channel design
- High-rate aiding (e.g., INS, baro)
- >6,000 correlators for fast acquisition
- All-in-view track and navigation
- High accuracy
- Antenna masking selection
- Precise time transfers (timing pulse not needed)
- Form-fit drop-in replacement for NavStrike PPS receiver
HIGH ACCURACY IN A COMPACT PACKAGE
NavStrike SPS combines a small, cost-effective package with high accuracy and reliability, all keys to your success in harsh environment, dynamic applications. Experience NavStrike’s accurate GPS navigation either as a stand-alone system or integrated with an existing INS or Doppler Reference System. Its primary communication interface is a high-speed RS-422 serial port.

GROWTH PATH
Modular design and field-programmable software ease maintenance, provide a growth path and reduce life-cycle cost. Delivery is assured by using common critical components, processes and manufacturing lines that deliver over 100,000 GPS receivers per year.

INTERFACES
› Serial data: RS-422
› 1 PPS/TimeMark

SYSTEM CHARACTERISTICS
Receiver L1 frequency, C/A
Dynamics >10 g acceleration
TTFF <10 sec - time uncert: ≤10 ms
77 s nominal cold start w/o initialization data
Time accuracy <100 nanoseconds
Position accuracy <5 meters CEP
Fault coverage >95%

PHYSICAL CHARACTERISTICS
Power <4.0 watts continuous
<3.0 watts track
Weight 0.5 pounds maximum
Size/volume 3.5” W x 3.0” H x 0.75” D maximum
Temperature range -54°C to +85°C (continuous)
-62°C to +95°C (storage)
Shock 386 g operating

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

Building trust every day.
Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

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