



# SBAS/GNSS

**ROBUST AND RELIABLE.**  
HIGH-INTEGRITY POSITION SOURCE  
FOR GENERAL AND BUSINESS  
AVIATION AIRCRAFT.

Building on systems engineering and integration know-how, FreeFlight Systems effectively implements comprehensive, high-integrity avionics solutions. We are focused on the practical application of NextGen technology to real-world operational needs — OEM, retrofit, platform or infrastructure.

FreeFlight Systems is a community of respected innovators in technologies of positioning, state-sensing, air traffic management datalinks — including rule-compliant ADS-B systems, data and flight management. An international brand, FreeFlight Systems is a trusted partner as well as a direct-source provider through an established network of relationships.



## 3 GENERATIONS OF EXPERIENCE BEHIND NEXTGEN AVIONICS

NEXTGEN LEADER. INDUSTRY EXPERT. TRUSTED PARTNER.  
**SHAPE THE SKIES.**



# 1201C SBAS/GNSS SENSOR

Small, lightweight, and easily installed, the 1201C integrates with existing Mode S Extended Squitter transponders to enable compliance with ADS-B Out equipage requirements. The 1201C is characterized by high performance and operational reliability and longevity.

## 1201C SBAS/GNSS SENSOR

### SPECIFICATIONS

|                             |   |
|-----------------------------|---|
| <b>Model</b>                | <b>1201 C</b>                           |
| <b>Type</b>                 | 15-channel GPS receiver                 |
| <b>Position Update Rate</b> | 5 times per second output at one/second |
| <b>Velocity</b>             | 1,000 knots, steady state               |
| <b>Performance</b>          | Complies with DO-229D                   |

### CERTIFICATIONS

|                               |  |
|-------------------------------|--|
| <b>System</b>                 | TSO-C145c (Beta 1)   |
| <b>Environmental</b>          | DO-160G  |
| <b>Software Assurance</b>     | DO-178 Level C<br>DO-254 Level C                           |
| <b>Installation Approvals</b> | Approved as ADS-B position source as defined in AC 20-165B |

### PHYSICAL CHARACTERISTICS

|                           |                            |
|---------------------------|----------------------------|
| <b>Size</b>               |                            |
| <b>Sensor</b>             | 5.1" W<br>5.5" D<br>1.7" H |
| <b>Antenna</b>            | 3.0" W<br>4.7" D<br>0.8" H |
| <b>Weight</b>             |                            |
| <b>Sensor</b>             | 0.8 lbs                    |
| <b>Antenna</b>            | 0.5 lbs                    |
| <b>Interface</b>          | RS-232                     |
| <b>Operating Temp</b>     |                            |
| <b>Sensor</b>             | -40°C to +70°C             |
| <b>Antenna</b>            | -55°C to +85°C             |
| <b>Operating Humidity</b> | 95% at 65°C                |
| <b>Input Voltage</b>      | 10 - 40 VDC (operational)  |
| <b>Input Current</b>      | 0.3 A at 28 VDC            |

The FreeFlight Systems' 1201C SBAS/GNSS sensor is intuitive - upon configuration, the system begins outputting data as soon as power is applied. The remote-mount 1201C sensor will be certified to meet ADS-B and RNP accuracy, integrity, and availability requirements worldwide. Along with the 1203C, the 1201C is part of FreeFlight Systems' robust and reliable SBAS/GNSS sensors available for all categories of aircraft.

For additional product information and specifications, please contact our Sales Team at +1.254.662.0000.



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