



# SBAS/GNSS

**ROBUST AND RELIABLE.**  
RETROFIT POSITION SOURCE FOR  
GLOBAL NEXTGEN APPLICATIONS.

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.**



# 1203C SBAS/GNSS SENSOR

Designed for business, regional, airline transport and heavy rotary wing aircraft, the 1203C provides state-of-the-art aviation GPS technology in a proven package. Providing reliable service to fleets worldwide, the 1203C allows customers to take advantage of the benefits of NextGen without the need for extensive and costly avionics upgrades.

## 1203C SBAS/GNSS SENSOR

### SPECIFICATIONS

<b>Model</b>	<b>1203C</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
<b>Environmental</b>	DO-160F
<b>Software Assurance</b>	DO-178B Level C
<b>Installation Approvals</b>	Approved as ADS-B position source as defined in AC 20-165B

### PHYSICAL CHARACTERISTICS

<b>Size</b>	4.7" W 8.7" D 1.6" H
<b>Antenna</b>	3.0" W 4.7" D 0.8" H *Any approved TSO-C144 antenna, and many legacy antenna types
<b>Weight</b>	1.9 lbs (0.9 kg)
<b>Antenna</b>	0.5 lbs (0.2 kg)
<b>Interface</b>	ARINC 429, ARINC 743
<b>Operating Temp</b>	-40°C to +70°C
<b>Antenna</b>	-55°C to +85°C
<b>Operating Humidity</b>	95% at 50°C
<b>Cooling</b>	Ambient air
<b>ADS-B Transponder Compatibility</b>	TPR-901 TDR-94/94D NXT 700/800 XS-950 RCZ-XXM TRA-100B BXT65XX APX-119  *Any ARINC 743A compliant ADS-B Transponder
<b>Input Voltage</b> (Steady State)	10-32 VDC
<b>Input Current</b> (Steady State)	0.3 A at 14 VDC 0.2 A at 28 VDC

\*STC's available for multiple ADS-B compliant transponder types. Contact sales for additional details.

As a certified ADS-B position source approved for all ICAO jurisdictions, the integrated 15-channel 1203C SBAS/GNSS sensor is part of a fully rule-compliant ADS-B Out system when paired with a compatible, certified Mode S transponder. Providing reliable service to fleets worldwide, the 1203C also serves as the approved position source for CPDLC, TAWS/FMS, RNP and other NextGen applications.

For additional product information and specifications, please contact our Sales Team at +1.254.622.0000

