

GNSS/SBAS RECEIVER

RETROFIT POSITION SOURCE FOR TRULY GLOBAL NAVIGATION



EXTEND PLATFORM CAPABILITIES WITH THE 1203C SBAS/GNSS RECEIVER. HIGH MTBF SOLUTIONS FOR MISSION CRITICAL OPERATORS.

Designed for business, regional, airline transport, and heavy rotary wing aircraft, the 1203C GNSS/SBAS receiver provides state-of-the-art aviation GPS technology in a proven, small form factor package.

The SBAS/GNSS receiver was designed and certified for a variety of platforms including business jets, commercial air transport, and rotorcraft applications.

The 1203C features a high performance 15-channel GPS engine capable of position updates at a rate of five times per second. The 1203C has multiple STCs for ADS-B, TAWS, and CPDLC as a position and timing source. The 1203C is TSO-C145c certified and approved to DO-160F and DO-178B Level C.

For more information, please contact our Sales Team at **254.662.0000** or by email at sales@freeflightsystems.com.



FreeFlight Systems is part of the ACR Group of companies.

1203C OUTPERFORMS EXPECTED MEAN TIME BETWEEN FAILURE (MTBF) BY 3-FOLD:

A study of actual return data from over 2,500 units in operation suggests a field MTBF well in excess of 100,000 flight hours. This compares very favorably to the predicted MTBF of 32,000 operating hours.



FreeFlight Systems

Founded in 2001, FreeFlight Systems designs, manufactures, sells, and supports avionics systems that improve the safety, efficiency and affordability of flying. We specialize in technologies and solutions that bring the benefits of the NextGen airspace transformation to all segments of aerospace. We are known for the quality and reliability of our products, the flexibility and compatibility of our solutions, and our commitment to long-term client satisfaction.

1203 SBAS/GNSS SENSOR

RETROFIT POSITION SOURCE



Designed for business, regional, airline, 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.

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 FAA NextGen applications.

FEATURES/CAPABILITIES

SPECIFICATIONS

Model	1203C
Type	15-channel GPS receiver
Position Update Rate	5 times per second output at one/second
Velocity	1,000 knots, steady state
Performance	Complies with DO-229D

CERTIFICATIONS

System	TSO-C145c
Environmental	DO-160F
Software Assurance	DO-178 Level C
Installation Approvals	Approved as ADS-B position source as defined in AC 20-165B

PHYSICAL CHARACTERISTICS

Dimensions	1203C: 4.7" W, 8.7" D, 1.6" Antenna: 3.0" W, 3.7" D, 0.8" H
Weight	1203C: 1.9 lbs (0.9 kg) Antenna: 0.5 lbs (0.2 kg)
Interface	ARINC 429, ARINC 743
Operating Temperature	1203C: -40° C to +70° C Antenna: -55° C to +85° C
Operating Humidity	95% at 50° C
Cooling	Ambient Air
Input Voltage (Steady State)	10-32 VDC
Input Current (Steady State)	0.3A at 14 VDC 0.2A at 28 VDC

The 1203C GPS receiver provides full ADS-B Out compliance when paired with following popular Mode S Extended Squitter transponders available today:

TRANSPONDER	STC OWNER	AIRCRAFT
APX-119	Sierra Nevada Corporation	PZL M28 05
BXT6515/6553	FreeFlight Systems	AML Part 23 AML Part 23
NXT SERIES	Steven's Aviation	AML Part 23 ALM Part 25
NXT-800	GoAeroMx	A300, A310, 767, 757, 777, MD10, MD11
RCZ-8XXM	New United Goderich	Embraer 135/145
TDR-94D	CMD Flight Solutions	AML Part 23 AML Part 25
TDR-94D	Collins Aerospace	AML Part 23 AML Part 25
TDR-94D	Prostar Aviation	AML Part 25
TPR-901	Allegiant Air	A320
BXT6515/6553	DAC International	AML Part 25
TRA100B	H4 Aerospace	B737
TRA100B	Scandinavian Avionics	AML Part 25

For more information, please contact our Sales Team at **254.662.0000** or by email at **sales@freeflightsystems.com**.

Specifications subject to change. Contact sales@freeflightsystems.com for latest revision.