



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	
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-178B Level C
Installation Approvals	Approved as ADS-B position source as defined in AC 20-165B
PHYSICAL CHARACTERISTICS	
Size	4.7" W 8.7" D 1.6" H
Antenna	3.0" W 4.7" D 0.8" H *Any approved TSO-C144 antenna, and many legacy antenna types
Weight	1.9 lbs (0.9 kg)
Antenna	0.5 lbs (0.2 kg)
Interface	ARINC 429, ARINC 743
Operating Temp	-40°C to +70°C
Antenna	-55°C to +85°C
Operating Humidity	95% at 50°C
Cooling	Ambient air
ADS-B Transponder Compatibility	TPR-901 TDR-94/94D NXT 700/800 XS-950 RCZ-XXM TRA-100B BXT65XX APX-119 *Any ARINC 743A compliant ADS-B Transponder
Input Voltage (Steady State)	10-32 VDC
Input Current (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



1203C SBAS/GNSS TRANSPONDER INTEGRATIONS

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

TRANSPONDER	STC OWNER	APPLICABLE AIRCRAFT
APX-119	SIERRA NEVADA CORPORATION	PZL M28 05
BXT6515/6553	FREEFLIGHT SYSTEMS	AML PART 23 AML PART 25
NXT SERIES	STEVEN'S AVIATION	AML PART 23 AML 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
TDR-94D	CMD FLIGHT SOLUTIONS	AML PART 25
TDR-94D	ROCKWELL COLLINS	AML PART 23
TDR-94D	ROCKWELL COLLINS	AML PART 25
TDR-94D	PROSTAR AVIATION	AML PART 25
TPR-901	ALLEGiant AIR	A320
TPR-901	JANZ AIR CONSULTING	B747/767

As a certified position source for all ICAO jurisdictions, our 1203C SBAS/GNSS receiver gives your clients the mandate compliance they are looking for without the need for extensive and costly avionics upgrades. Straightforward, seamless installation minimizes aircraft down time. Bulk pricing is available, ensuring you're ready to meet installation demand.

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

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