

NXG-900™ GPS



WAAS/SBAS Compliant GPS Source

The NXG-900™ GPS is a WAAS (Wide Area Augmentation System) / SBAS (Satellite-Based Augmentation System) compliant GPS solution. The NXG-900 utilizes signals from the GPS satellite constellation and SBAS including WAAS, European EGNOS, Indian GANAN, and Japanese MSAS. The NXG-900 is ADS-B rule compliant with the position source requirements of AC 20-138D and AC 20-165B. The NXG-900 provides an ARINC 743A based output, while meeting the Part 25 aircraft environmental levels.

The ACSS NXG-900 contains an integrated GPS receiver that provides critical aircraft information including position, velocity, and ground track for ADS-B 'Out' messages. Purchased as a commercial-off-the-shelf package, the NXG-900 with one or two NXT-600, NXT-700, or ATDL Mode S transponders provides aircraft operators with a simple path to satisfy the ADS-B mandates established by FAA and EASA.

Another NXG-900 feature is an ADS-B receiver providing subscription-free Weather (FIS-B) through a Wi-Fi dongle interface to mobile applications including Android, iOS and Windows. FIS-B weather products include NEXRAD, CONUS NEXRAD, METARs, TAFs, PIREPs, winds and temperatures aloft, NOTAMs, AIRMETs and SIGMETs.

KEY FEATURES

- Rule Compliant WAAS Position Source
- ADS-B In providing 978 MHz UAT, Free Weather (FIS-B)
- Wi-Fi dongle interface module to compatible mobile applications (Android, iOS, Windows)
- NXG-900 is certified to TSO-C145c, TSO-C154c and TSO-C157a

NOTE: THE NXG-900 IS EXCLUSIVE TO THE ACSS FAMILY OF TRANSPONDERS AND CANNOT BE PURCHASED SEPARATELY.

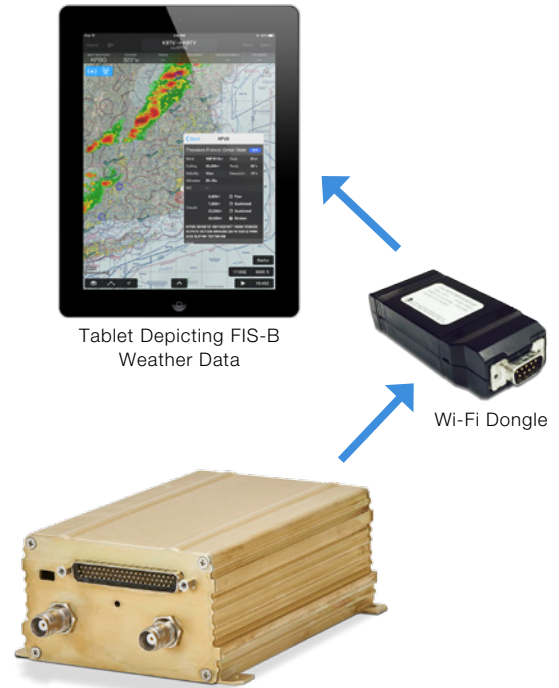


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NXG-900 SPECIFICATIONS

Part No.: 9009000-55000

PHYSICAL DESCRIPTION	
Size (inches)	2.29 (H) x 4.78 (W) x 6.50 (L)
Weight	1.6 lbs
Mounting	4-point Flange Mount
Cooling	Passive
CERTIFICATION	
Environmental	DO-160G
TSO/ETSO	C145c, C154c, C157a
Software	DO-178B Level C
ADS-B Capability	ADS-B In per DO-260B (for FIS-B)
GPS Capability	Class Beta-1 per RTCA DO-229D
Operating Altitude	Sea Level to 55,000 ft NOTE: UAT capability is restricted to 24,000 feet or below
Operating Temperature	-55 to +70 degrees C
Power	28VDC
Power Consumption	8.9 Watts (nominal), 11.5 Watts (maximum)
No. of Antenna Ports	2 (GPS & L-Band/UAT)
INTERFACES	
Diagn. Tool Interface	Mini-USB or Wi-Fi
Mobile Applications	Wi-Fi
Transponder Interface	Compatible ACSS Transponders



Tablet Depicting FIS-B Weather Data

Wi-Fi Dongle

ADS-B/NextGen Avionics

As part of ACSS' mission to provide avionics that enhance safety, situational awareness and efficiency, ACSS has led the industry in the development of avionics based Automatic Dependent Surveillance-Broadcast (ADS-B) technology. ADS-B is the cornerstone technology for the NextGen air traffic management system.



In addition to Mode S Transponders that transmit precise ADS-B Out position, speed and intent data to nearby aircraft and ATC, ACSS has a suite of SafeRoute® ADS-B In applications. They include SafeRoute-Interval Management, In-Trail Procedures (ITP), CDTI Assisted Visual Separation (CAVS) and Surface Area Movement Management (SAMM). SafeRoute capability is an option available in the TCAS 3000SP platform.



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