NXT-600™

ADS-B Compliant Mode S Transponders for Business Aviation

THE NEXTGEN TRANSPONDER

The NXT family of Mode S Transponders from ACSS are designed to meet the future needs for optimized flight and Air Traffic Modernization efforts for helicopters and business jets. They provide both standard and enhanced Mode S surveillance compliance with maximum reliability through built-in testing.

Designed to be form-factor replacements, these ICAO Level III transponders meet Automatic Dependent Surveillance-Broadcast (ADS-B) Out mandates by transmitting the precise position, speed and intent of the aircraft to the ground and satellite network.

Advanced features include the European Elementary Surveillance (ELS) and Enhanced Mode S Surveillance (EHS), as well as Downlink of Aircraft Parameters (DAPs) and ADS-B 1090ES extended squitter.

The NXT-600 transponder reduces lifetime costs and improves reliably. It is lighter than older transponders, reducing weight and operating costs by offering maintenance crews the ability to perform software updates directly on the aircraft. The NXT-600 improves reliability by reducing TCAS no-fault-found failures, enhancing the overall surveillance system.

KEY FEATURES

> **DO181-E and DO-260B compliant**

> **Meets business jet and helicopter demands**

> **Direct form factor replacements for the ACSS RCZ-852**

> **Elementary & enhanced Mode S surveillance compliant**

> **Maximum reliability with built-in test and self-test capabilities**

> **Compatible with all ARINC 735B/735A/735 TCAS II systems, including ACSS TCAS 3000SP™, TCAS 2000™, T²CAS® and T³CAS™**

> **AC or DC power options**

> **Compatible with GPS module NXG-900**

SPECIFICATIONS

NXT-600	
Part Number:	9006000-55000 (DC)
PHYSICAL DESCRIPTION	
Size (inches):	3.45" (H) x 4.15" (W) x 14.01" (L) *length includes handle*
Weight:	5.1 lb.
Mounting:	ARINC 404 MT-600 Mount
Cooling:	Internal
CERTIFICATION	
Environmental:	DO-160G
TSO/JTSO:	C112d, C166b / C112d
Software:	DO-178B Level B
Transp. Data Link Capability:	ICAO Level 3 (COMM-A/B/C)
ADS-B Capability:	1090ES Extended Squitter per RTCA DO-260B MOPS for 1090 ADS-B Equipment
Operating Altitude:	Sea level to 55,000 feet
Operating Temperature:	-55 to +70° C
Storage Temperature:	-55 to +85° C
Power:	28VDC
Power Consumption:	28 Watts (standby), 55 Watts (maximum)
No. of Antenna Ports:	2 (diversity)
INTERFACES	
Controller:	Low speed ARINC 429
TCAS II:	High speed ARINC 429
GPS:	High or low speed ARINC 429
Altimeter:	ARINC 429/575 (digital air data)
Flight Identifier:	Various
Maintenance Computer:	Low speed ARINC 429
WebEDDIT:	RS-232

ADS-B/NEXTGEN AVIONICS

As a leader in surveillance technology for all aerospace markets, ACSS is committed to providing avionics that helps create safer skies through enhanced safety, situational awareness and efficiency. ACSS is a leader in the development of Automatic Dependent Surveillance-Broadcast (ADS-B) solutions augmenting global NextGen air traffic management and modernization initiatives for over ten years. This includes the suite of SafeRoute+ ADS-B In applications for air transport and regional aircraft as well as the Lynx® ADS-B transponders for general aviation.

SafeRoute+ is a selectable suite of ADS-B In applications that increase efficiency and pilot situational awareness through a simple software upgrade to select transponders. The Lynx NGT-9000 is a transponder offering traffic, weather, terrain and ADS-B information as a remotely mounted unit or as a dual touchscreen display. For business aviation customers, please locate a dealer at www.L3Harris.com/transponders.