



NXT-600

NXT-700

NXT-800

## Form-Fit ADS-B Compliant Mode S Transponders

### The NextGen Transponder

The NXTs are DO-260B (FAA) and DO-181E (EASA) compliant to meet the global Automatic Dependent Surveillance-Broadcast (ADS-B) mandates for aircraft that are required to have ADS-B Out capability. These light-weight NXTs transmit ADS-B Out data from your aircraft to other nearby aircraft and Air Traffic Control (ATC). The higher level of ADS-B Out (DO-260B) transmission includes precise flight data, including position, speed and intent of the aircraft.

The NXT transponders are optimized for flight in the next generation air traffic environment. ACSS transponders are installed on thousands of aircraft worldwide. The NXTs are form factor replacements to the highly successful XS-950 Air Transport Data Link (ATDL) transponder and the RCZ-852 for Business Jets, Regionals and Helicopters. The NXT-700 is designed as a form-fit replacement for a ¼ ATR Short installation.

The NXTs are ICAO Level III transponders, delivering the latest functionality required for ICAO ACAS II mandate compliance; European Elementary Surveillance (ELS) and Enhanced Mode S Surveillance (EHS), Downlink of Aircraft Parameters (DAPs) and ADS-B 1090ES extended squitter.

Software upgrades to the NXT are performed through on-board software loads, providing operators with significant cost savings and scheduling flexibility. High reliability of our Mode S transponders greatly enhances the overall surveillance system by reducing Mode S transponder-induced TCAS no-fault-found failures.

### KEY FEATURES & BENEFITS

- DO-260B compliant to meet FAA/EASA NextGen mandates, transmitting more precise position, speed and intent data
- Meets Air Transport, Business Jet and Helicopter demands with 3 size options that are form factor replacements for the XS-950 (4 MCU), RCZ-852 and ¼ ATR Short
- 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



## SPECIFICATIONS

NXT-600 Part No.: 9006000-55000 (DC)  
 NXT-700 Part No.: 9007000-55001 (DC)  
 NXT-800 Part No.: 9008000-55000 (DC) / 9008000-10000 (AC)

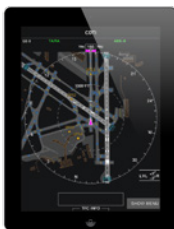
	NXT-600	NXT-700	NXT-800
<b>PHYSICAL DESCRIPTION</b>			
Size (inches)	3.4 (H) x 4.1 (W) x 14.01 (L)	7.62 (H) x 2.25 (W) x 12.4 (L)	4 MCU
Weight	5.0 lb.	5.5 lb.	8.6 lb. (AC), 7.8 lb. (DC)
Mounting	MT-600 Mount	ARINC 404A, 1/4 ATR Short	ARINC 600 4 MCU Mount
Cooling	Internal	Internal	External
<b>CERTIFICATION</b>			
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 degrees C		
Storage Temperature	-55 to +85 degrees C		
Power	28VDC	28VDC	115VAC, 400Hz or 28VDC
Power Consumption	28 Watts (standby), 55 Watts (maximum)		
No. of Antenna Ports	2 (diversity)		
<b>INTERFACES</b>			
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 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 on 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.



### Aviation Communication & Surveillance Systems (ACSS)

an L3 Technologies & Thales Company

19810 N. 7th Avenue

Phoenix, AZ 85027-4400

Telephone: +1 623-445-7000

Email: [acss.orderadmin@L3T.com](mailto:acss.orderadmin@L3T.com)

[www.acss.com](http://www.acss.com)



### Air Transport Customers

Thales Avionics Service Worldwide

Telephone: + 33 (0)5 61 19 65 00

Email: [marketing.asw@fr.thalesgroup](mailto:marketing.asw@fr.thalesgroup)