

BXT6500 ADS-B Transponder

Overview

The 6500 series ADS-B Transponder is a transponder line from Becker Avionics. The system is designed for fixed and rotary wing applications and offers many integrated features. Thus, the BXT6553 variant is one of the lightest TCAS II compatible transponders on the market, which was successfully integrated in avionics systems of Honeywell, Collins, CMC and others.

Provided with standard ARINC 429 interfaces it can be easily integrated into any avionics system. Due to its variety of ARINC interfaces no additional data concentrator is necessary.

In addition, it can be connected to the ARINC 718-compatible control head of your choice. The equipment provides reply to air traffic control surveillance



MODE S

ADS-B
OUT

TCAS II

Remote

interrogation including compliant ADS-B Extended Squitter messages (ES) and supports TCAS coupling. Further the BXT6500 series meets the requirements for Mode S Enhanced Surveillance (EHS) and provides Downlink of Aircraft Parameters (DAPs).

Its smooth surface, without ventilation slots, saves space, increases the product's reliability and makes installations more flexible.

The BXT6500 series offers a wide range of options, such as diversity and single antenna versions and a dedicated special mission function for law-enforcement and governmental users. For example, the Mode S reply can be disabled and the transponder falls back to Mode A/C. The aircraft is visible for ATC radars, but not identifiable or trackable.

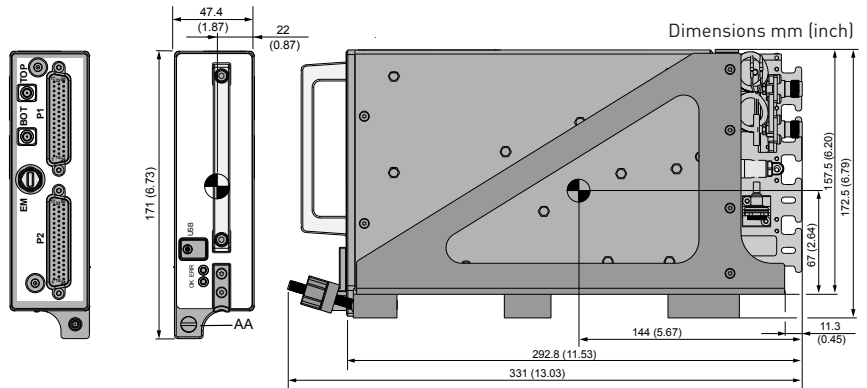
Features

- Easy installation thanks to backshell and mounting tray
- Easy replacement with external memory module for configuration data
- Smooth design, no ventilation slots, no forced cooling, light weight
- Quick and easy configuration
- Field Loadable Software (FLS) for quick and easy system upgrades
- "On-wiring" maintenance thanks to USB
- Diversity or single antenna configuration
- TCAS II compliant
- Mode A/C, Mode S and ADS-B
- EASA, FCC certificated (ETSO-C112e, ETSO-C166B)
- Supplemental Type Certificates
List of STCs: <https://www.becker-avionics.com/stcs/>





Transponder BXT6500 Series
with backshell and mounting tray



Technical Data

BXT6500 Series	Specification	
	BXT6513	BXT6553
Power supply	18.0...32.2 VDC - 14 W (typical @ 28 V)	22.0...32.2 VDC - 14 W (typical @ 28 V)
Operating temperature	-45...+70 °C	-55...+70 °C
Level	2 adens; BXT6513-[010]: 2 ens	
Transmitter power	min. 250 W	
Antenna diversity	Yes	
Surveillance identifier code	Yes	
Elementary surveillance	Yes	
Extended squitter	Yes	
Enhanced surveillance	Yes	
TCAS II compliance	Yes	
Vibration	Fixed wing & rotary wing (SMB2, U2FF1)	
Interfaces	Control Interface, Air Data Computer, ADLP - Airborne Data Link Processor, FCC - Flight Control Computer, FMC - Flight Management Computer, IRS - Inertial Reference System, GNSS (ARINC 743A & RS232), Radio altimeter, data concentrator, field loadable software	
Certifications	ETSO C112e - ETSO C166b	
Standards	ED-73E / DO-181C, ED-102A / DO-260B ED12C / DO-178C, ED-80 / DO-254, DO-160G	
ADS-B out	1090 MHz, Class B1	
Design assurance level (DAL)	Level C	Level B (DO-178C & DO-254)
Dimensions WxHxL	47 x 171 x 276 mm (details see drawing)	
Weight	≤ 1.6 kg (3.5 lbs)	≤ 2.0 kg (4.4 lbs)