

BXP641X Series

Mode S Transponder

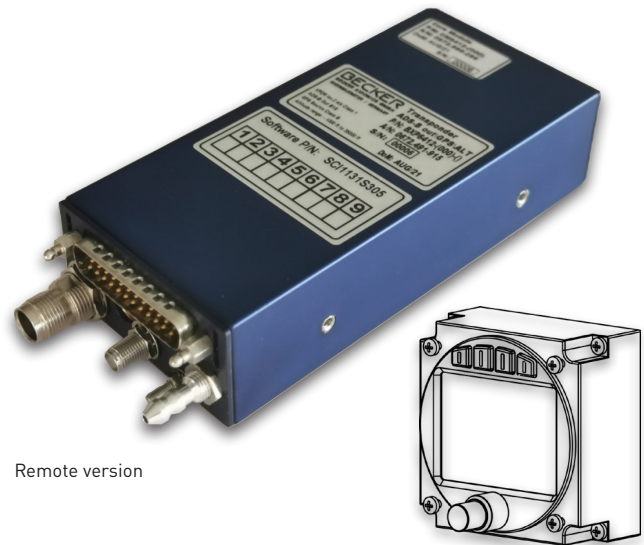


Overview

The BXP641X is a functional combination of Mode S transponder, ADS-B subsystems with cost efficient SBAS GPS receiver and barometric altimeter integrated in one device.

The space-saving device is also designed for remote operation. The BXP641X can be controlled via a control panel or a glass cockpit.

Small size, low weight and the possibility to be powered from battery are key advantages over a conventional stack of devices that can be replaced by the BXP641X from Becker Avionics.



Remote version

ACD-57

Features

Mode S Transponder:

- The BXP641X includes fully functional Class 1 (250 Watt), Level 2 Datalink Mode S, ELS transponder.
- The Mode S functionality complies with the current worldwide requirements ETSO-C112e. Compliance with ELS and Extended Squitter is shown at the installation level per CS-STAN and EASA CS-ACNS.
- The transponder operates with single antenna.

ADS-B Out Compliant:

- The BXP641X includes a 1090 MHz airborne ADS-B system that provides transmission functionality of Class B1S device.
- The transmitting subsystem broadcasts aircraft identification, position, velocity and status data.
- With external certified GPS receiver the BXP641X meets all European and US requirements for ADS-B mandate.

Barometric Altimeter:

- A build-in temperature controlled barometric altimeter is the precision source for flight level up to 35 000 ft.
- Rigor certification according ETSO-C10b allows to use it as primary source of barometric altitude in aircraft which can be easily connected to FMS, GPS or Terrain Awareness System.
- The barometric altimeter gives the possibility to a quick change of the reference pressure from the current value, e.g. a QNH or QFE.

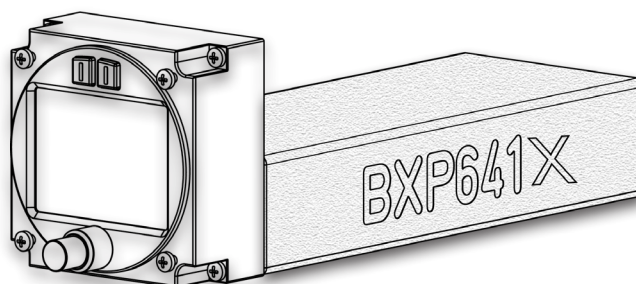
SBAS GPS Receiver:

- The BXP641X includes a GNSS receiver that complies with the EASA ETSO-C199. Such GPS receiver is reasonable compromise between price and accuracy for light helicopters and aircrafts to operate on the same rules as a TABS device.



Technical Data

BXP641X Series	Specification
General	
Supply voltage	14/28 VDC nominal
Operating temperature	-40...80 C
Weight	≤ 350 g (0.77 lbs)
Dimensions WxHxL	61 x 30.5 x 150 mm (2.4 x 1.2 x 5.9 inch)
Mode S Transponder	
Transmitter power	≥ 250 W, Class 1
Transmission frequency	1090 MHz
Reception frequency	1030 MHz
Modes	A, C, S
Level	2
Maximum altitude	50 000 ft
Antenna diversity	No
SI code	Yes
Elementary surveillance	Yes
Extended squitter	Yes
ADLP interface	Yes
Control interface	RS422, RS232
Standards	ED-73E, DO-181E
Altimeter	
Range	Up to 35 000 ft
Q-Code	QNH, QNE
Interface	RS422, RS232
Standards	AS8009
ADS-B system	
Class	B1S
Operating frequency	1090 MHz
Output messages	Identification Position Velocity Operational status Extended squitter status
Interface	RS422, RS232
Standards	ED-102A, DO-260B
SBAS GPS receiver	
Accuracy	2.0 m CEP
Sensitivity	Cold start: 148 dBm Tracking: 164 dBm
Acquisition	Cold start: 26 s
Interface	RS422, RS232
Standards	ETSO-C199



Single block