



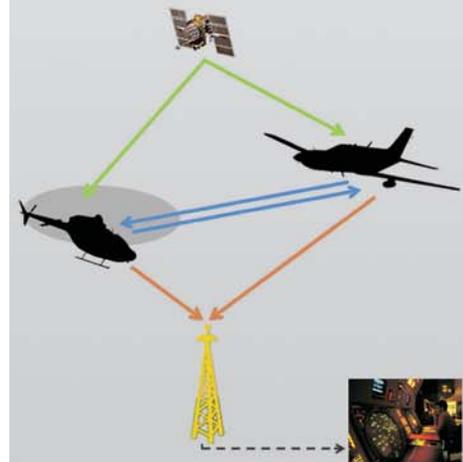
AXP340 ADS-B MODE S TRANSPONDER

The AXP340 transponder is a panel-mounted Class 1 Mode S Level 2 Datalink Transponder, with support for 1090MHz Extended Squitter (ES), that meets all the current requirements for Mode S elementary surveillance transponders for both IFR and VFR flight. As a slide-in replacement for existing KT76A/KT76C/KT78A transponders, the AXP340 is designed to easily upgrade existing Mode A/C equipment to Mode S, while adding additional functionality like a Direct-entry Numeric Keypad, Pressure Altitude & GPS Lat/Lon readout, Flight ID entry, one-touch VFR code entry, an easy-to-use Stop Watch Timer, Flight Timer, and Altitude Alerter.

MEETING THE MANDATE FOR ADS-B

The AXP340 also supports the latest Version 2 1090 MHz Automatic Dependent Surveillance Broadcast (ADS-B) Extended Squitter, known as “ADS-B out”. Equipping with ADS-B Out will be required in most U.S. airspace by 2020. The AXP340, when linked to a suitable GPS receiver, transmits position information to appropriately-equipped ground stations and other aircraft. This provides improved airborne surveillance, provides vital information for airport ground surveillance, and is a key feature of future airspace plans.

Avidyne’s AXP340 Mode S Transponder provides an ADS-B Out solution for general aviation aircraft in a simple, easy-to-use, plug & play design.



The AXP340 provides an affordable and lightweight Mode S Surveillance and ADS-B Out solution for fixed wing and helicopter operators.

THE AXP340 PROVIDES ADS-B OUT CAPABILITY TO MEET THE MANDATE AND TO ENHANCE THE SAFETY OF YOUR AIRCRAFT.

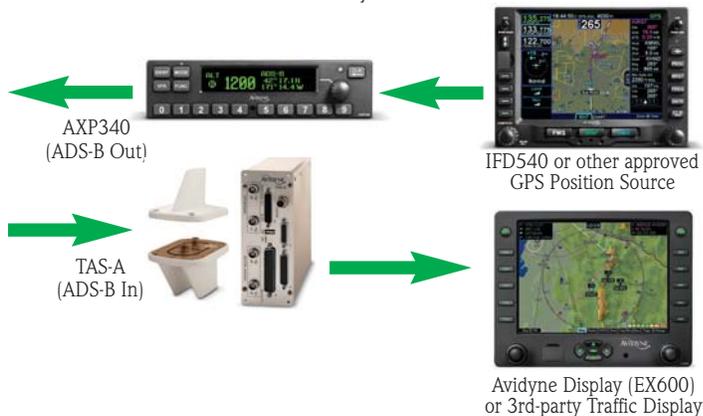


THE MODE S ADVANTAGE

The AXP340 delivers 240 Watts of transmitter power, and responds to both legacy Mode A/C interrogations and to Mode S interrogations from both ground radar and airborne collision avoidance systems. In the Mode S environment (S stands for Select), a Mode S interrogator can selectively address a single transponder. This allows accurate position plotting with lower reply rates, which in turn reduces frequency congestion and interference.

YOUR 1090MHZ ADS-B SOLUTION

Coupled with any of Avidyne's TAS-A ADS-B capable Traffic Advisory Systems, the AXP340 provides full ADS-B surveillance capability to meet the upcoming mandates for flight internationally and above and below FL180 in the U.S. The AXP340 transmits the required ADS-B Out signals including your aircraft's GPS-derived position, along with ground track, ground speed and altitude information. The TAS-A provides ADS-B In, allowing you to receive the ADS-B signals from ground radar and from other 1090MHz ADS-B – equipped aircraft and display both ADS-B and non-ADS-B traffic simultaneously for optimal situational awareness and safety.



The AXP340 & TAS-A combine to provide complete 1090MHz ADS-B solution. ADS-B & TAS traffic can be displayed on a wide range of displays including Avidyne's EX600 (shown here), providing the highest level of situational awareness and safety.



The AXP340 is a slide-in replacement for the venerable KT76A, KT76C, and KT78A transponders, making it a great choice for upgrades, as well as for new installations. (Additional wiring required for ADS-B functionality.)

SPECIFICATIONS

Dimensions

- Width: 6.30" (160mm)
- Height: 1.57" (40mm)
- Depth: 9.4" (239mm)

Weight

2.98 lbs (01.35 kg)

Type

Class 1 Mode S Level 2 Datalink
Elementary Surveillance
Enhanced Surveillance

Certification

TSO C112c, TSO C166b
ETSO 2C112b, ETSO C166b

Compliance

ED73B, DO160E, DO178B level B,
DO181C, DO260B, AC 20-165
ADS-B Out

Power

10 – 33 V
Idle: 0.22 A, Active: 0.45 A
240W nominal at connector

Environmental

-20 to +55 C, 35,000ft.
No external cooling fan required.

GPS Protocol Compatibility

Avidyne GPS
(including IFD540, IFD440, and Release 9)
Garmin GNS430W/530W Series
FreeFlight Model 1201/1204
NexNav mini-T

Other Interfaces

Gray Code & Serial Altitude Inputs
Serial Altitude Output
External Standby Input
Weight on Wheels Input
External Ident Input



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Avionics installations require special skills and test equipment. Avidyne's limited warranty is valid only for equipment installed by an Authorized Avidyne Distributor. Avidyne reserves the right to make changes to product specifications and design features without notice.

Some products may require additional hardware for full feature capability.

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