

ADS-B Out Class 1 Mode S Level 2 Datalink Transponder



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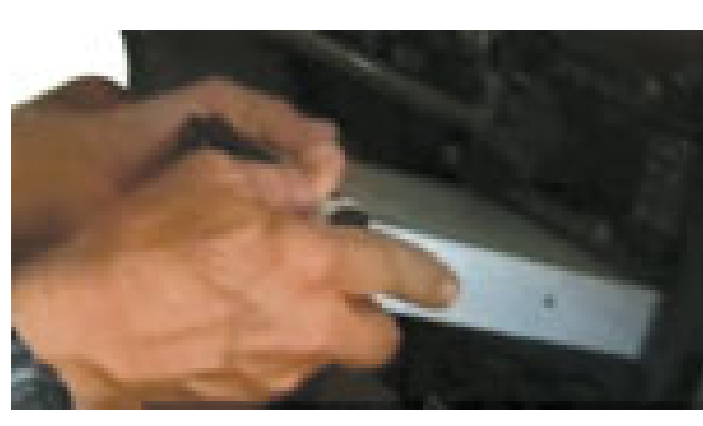
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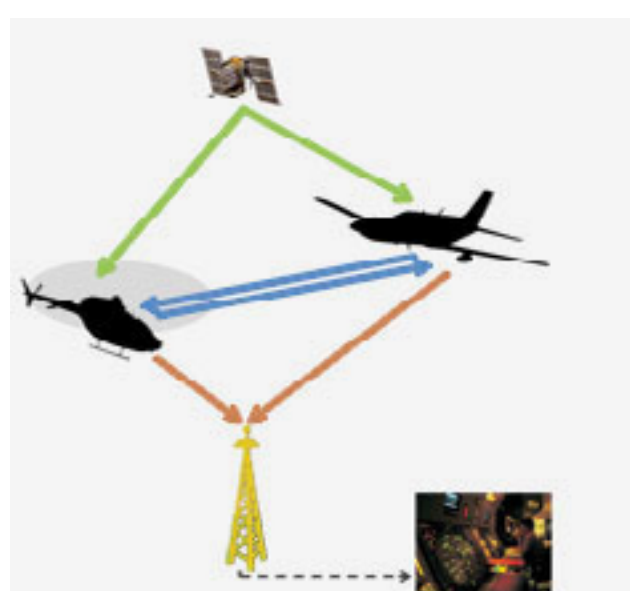
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DOCUMENTATION



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.



The XP340 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 XP340, 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.



Coupled with any of Avidyne's SkyTrax6000A 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 SkyTrax6000A 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

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SkyTrax Series

Traffic Alerting Systems



SkyTrax Traffic Alerting Systems

The dual-antenna SkyTrax Series, ADS-B capable Traffic Advisory Systems featuring VeriTAS™. SkyTrax offers affordable, high performance active surveillance traffic detection. SkyTrax systems are fully TSO certified with better performance capabilities of many higher-cost traffic systems.

From **\$5,000.00***

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* List price quoted is MSRP and actual price is determined by the dealer. Price is shown without installation cost; additional parts may be required. For more complete pricing information, including installation cost, please contact an authorized Avidyne aviation dealer.



OVERVIEW

SPECS

COMPATIBILITY

DOCUMENTATION

Traffic Advisory Systems (TAS), which are based on the technology originally developed for air-transport category traffic alert and collision avoidance systems (TCAS), have been available for general aviation aircraft for several years, but have been cost-prohibitive for many owner-flown aircraft. Until now.

With the new dual-antenna SkyTrax Series, Avidyne offers three different TAS systems (SkyTrax605A, SkyTrax615A and SkyTrax620A more), tailored for the type of aircraft you fly. These feature-rich, value-priced SkyTrax systems are fully TSO certified, surpassing the performance capabilities of many higher-cost traffic systems and setting a new standard for active-surveillance traffic capability and affordability.

Avidyne’s dual-antenna SkyTrax Systems detect other aircraft sooner and more accurately, so you avoid surprises due to the shadowing effects inherent with single-antenna systems. Using top and bottom directional antennas, SkyTrax systems actively interrogate other aircraft, providing timely audible and visual alerts with the precise location of conflicting traffic. The dual-antenna SkyTrax Series provides full-time protection and higher performance. Because when it comes to safety, you want to see the whole picture

SkyTrax Series Features and Capabilities

	SkyTrax600 (SkyTrax600*)	SkyTrax605A (TAS605A)	SkyTrax615A (TAS615A)	SkyTrax620A (TAS620A)
TAS Display Range	7nm	13nm	17nm	21nm
ADS-B Display Range	7nm*	20nm	30nm	40nm
Vertical Range	±3,500	±5,500	±5,500	±10,000
Altitude Limit	18,500	55,000	55,000	55,000
ARINC 429 Heading Input*	No	Yes	Yes	Yes
Max Number of Targets Displayed	30	30	30	30
Number of Targets Tracked	50	50	50	50
Active Interrogation	Yes	Yes	Yes	Yes
WAAS GPS Position Input	Yes*	Yes	Yes	Yes
Correlation of Active+Passive Targets	Yes*	Yes	Yes	Yes

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Featuring most of same functionalities as the IFD540, the IFD440 boasts a simple-to-use Page and Tab touchscreen interface with knobs and buttons, synthetic vision and WiFi/Bluetooth capabilities. Avidyne's full line of IFDs were designed for ease-of-use, especially during single-pilot IFR operations. As avid and enthusiastic pilots, the people at Avidyne understand the importance of workload reduction and simplicity of operation.

Avidyne's exclusive Hybrid Touch interface, touchscreen with knobs and buttons, allows you access to any page in the system within two clicks, turns or a simple push of a button. When touchscreen can become cumbersome in turbulent weather, knobs and buttons allow you to manage your mission quickly and easily.

Flight planning has never been more simple. Drop down menus are logically placed to provide easy data entry of airways, exit points, destinations and approach procedures. To make flight planning even easier, the IFD440 can automatically create user-defined waypoints.

FMS PREVIEW™ is a powerful flight planning features that allows you to load flight plans by showing you a real-time graphical depiction of each proposed modification in cyan prior to the selection. Visualize a desired waypoint, airway, hold or hold geometry, Direct To, approach, approach transition or any other terminal procedure before selection.

The convenient 'rubber banding' feature allows you to stretch any leg in the flight plan to easily deviate for weather or to accommodate an amendment from ATC.

All IFDs, including the IFD440, are equipped with Avidyne's enhanced 3D Synthetic Vision (SVS) for improved situational awareness. SVS is fully integrated and requires no additional boxes or wires.

3D TERRAIN - Terrain Awareness (SVS-TA) is provided via terrain coloration, providing visual Caution-Warning Alerting System (CAS) alerts and aural alerts terrain hazard awareness and alerting.

FLTA- Forward Looking Terrain Alerting (FLTA) alerting provides an extra measure of safety by displaying a solid yellow or red impact point based on projected flight path in the event that a collision with terrain is projected. FLTA also provides visual CAS messaging & aural alerting. (Optional on the IFD440)

3D OBSTACLES - Standard high, low and grouping symbology is used to clearly depict obstacles on the SVS display.

3D Traffic uses standard traffic symbology with traffic depictions indicating relative threat level by their size and relative altitude and bearing. As traffic draws nearer to you, the traffic symbols grow in size on the IFD.

All IFDs are equipped with WiFi and Bluetooth capabilities. When enabled, the IFD440 easily connects to your iPad and the MK10 wireless keyboard providing pilots a convenient way to remotely operate the IFD system.

Open wireless connectivity to flight planning and mapping applications such as Avidyne's IFD100 App, ForeFlight® Mobile, FlightPlanGQ®, Seattle Avionics FlyQ®, AvPlan® EFB, Jeppesen® Mobile Flight Deck, Cloud Ahoy®, and AeroGlass®

Want big glass in your cockpit? Avidyne's exclusive IFD100 application turns your iPad into another instance of your IFDI! Flight planning has never been simpler. Not only does the IFD100 mirror the functions the IFD440 but acts as additional instance. Load, change and manage your flight plan right from your iPad. Monitor your map for weather and traffic, and view pages independently. The IFD100 display will give you big glass capabilities at a fraction of the cost.

	IFD550	IFD545	IFD540	IFD510	IFD440	IFD410
FMS/GPS	X	X	X	X	X	X
VHF NAV	X		X		X	
VHF COM	X		X		X	
3D SVS	X	X	X	X	X	X
ARS + Dynamic SVS	X	X				
WiFi/BT/FLTA	X	X	X	X	Opt	Opt
Radar	Opt	Opt	Opt	Opt	From 5-Series	From 5-Series
Video	Opt	Opt	Opt	Opt	From 5-Series	From 5-Series

<https://www.avidyne.com/landing/ifd540/440-650-compare.asp>

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