



Product Catalog

General Aviation
Business Aviation
Helicopters
Fleet Operators

AVIDYNE[®]

LEADING THE AVIATION INDUSTRY IN TECHNOLOGY & INNOVATION.

Avionics is what we do. It's ALL we do. We're a team of pilots and aviation enthusiasts who solve real-world flying problems. Everything we do is with your safety top-of-mind and from your point of view.

When it comes to developing avionics, our primary goal is to ensure that you can find what you need fast allowing you keep your head up and focused on the sky.

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WHO WE ARE

At Avidyne, everything we design is with a pilot-centric point of view. We have many experienced pilots in our design and engineering teams, many of whom have logged thousands of hours in civilian and military aircraft. When it comes to developing avionics, our primary goal is to ensure that you can find what you need fast, letting you keep your head up and in the game.

“As a pilot and aircraft owner, I was struck by how little GA cockpits had changed over the last 30 years, I saw huge potential to develop a core technology and define a new generation of avionics that improve flying safety.”

— Dan Schwinn
President & CEO

LOCATIONS



Melbourne, FL
HQ & Manufacturing



Concord, MA



Westerville, OH

A HISTORY OF FIRSTS

Avidyne has been the technology leader in general aviation for over 25 years and since our inception we've been at the forefront of innovation. And along the way, we have racked up a number of industry firsts.

1997

1st with stand alone
5" MFD (FSD)

2003

1st to certify Big Glass
Integrated Flight Deck
for light GA

2007

1st color tactical lighting
sensor for GA

2010

1st digital retrofit autopilot with
Env Protection & Straight/Level

2014

1st to certify integrated
WiFi & Bluetooth®
connectivity

2014

Avidyne's first
plug-and-play
GPS/NAV/COM/FMS

2017

1st certified
panel-mount GPS
with integrated
Synthetic Vision

GENERAL AVIATION

Improving Safety and Awareness

For more than 25 years, Avidyne's primary focus has been, and always will be, the development and delivery of premium avionics for the general aviation community.

It all started with a single idea; that there has to be a better, safer way to fly single-pilot IFR. Made by pilots for pilots, our avionics are designed for workload reduction and simplicity of operation for the single pilot.



BUSINESS AVIATION

Finally, a true FMS/LPV/ADS-B solution

Avidyne's FMS/LPV/ADS-B systems provides a better, more affordable way to navigate the skies. Avidyne's IFD Series is a full-featured FMS in an easy-to-use, yet powerful design. Each IFD provides SBAS/LPV precision navigation designed to meet accuracy and integrity requirements for ADS-B as part of the NextGen airspace initiative. Avidyne's line of avionics for business jets are engineered for simplicity with the latest in pilot-centric technology including knobs and buttons to augment touchscreen operation in times of turbulence and inclement weather.



HELICOPTERS

Designed for the the way you fly

Avidyne's IFD Series GPS Navigators for helicopters were designed with real world flying conditions in mind. This means every detail and function of our IFD Series is engineered with purpose: to make flying, whether it be fixed wing or rotorcraft, simpler and safer. That's why we included knobs and buttons to keep eyes outside. In times of turbulence, instability, or inclement weather, Avidyne's IFD Hybrid Touch user interface gives pilots the choice based on phase of flight and pilot preference.



FLEET

Keep your fleet up and running

Fleet operators know that uptime is one of the critical aspects of your business. A grounded aircraft costs money and degrades service levels. Fortunately, Avidyne is designed to keep your fleet not just up and running, but operating with the technology and features that will last you for years to come. Uptime means being able to rely on an easy swap out of your old GNS units and no cutting into your panels. With the IFD Series and SkyTrax ADS-B systems for your entire fleet, you'll be sure to minimize downtime and maximize profits.



THE IFD SERIES

The most intuitive FMS/GPS/NAV/COM in the sky

As the heart of your ADS-B system, Avidyne's IFD Series FMS/GPS/NAV/COM represent the next generation in flight management systems. Each provides SBAS/LPV precision navigation and is designed to meet the accuracy and integrity requirements for ADS-B as part of the NextGen airspace initiative as well as international airspace. As direct replacements for legacy systems, the IFDs each share the same basic functionality in large and compact display formats respectively.

IFD Series Features



Touchscreen GPS/NAV/COM with Knobs and Buttons



ADS-B Compliant Position Source



Synthetic Vision with Integrated Traffic



Built-in Bluetooth® and WiFi



3D Terrain Awareness and FLTA



IFD100 App for iPad



LPV Vertical Guidance Coupled Approaches



Direct Slide-in Replacements of old GNS Systems



Low Fuel Alerting with compatible Fuel Totalizer System



Wireless Interface to Third-Party Flight Planning and Mapping Applications such as Foreflight®



IFD550



IFD545

Navigation at your fingertips

Get where you need to go. That's why we fly. Avidyne wants you to keep your head up when flying with your family and loved ones. That's the reason Avidyne designed their FMS to be as user-friendly as possible. Go where you need to go in two clicks or less.

Made for each other.

The IFD Navigators are key components in Avidyne's panel-mounted avionics suite, which also includes the AMX240 Audio Panel, AXP340 ADS-B Mode S Transponder, and DFC90 Digital Autopilot.

The IFD Series Feature Comparison

	IFD 550	IFD 545	IFD 540	IFD 510	IFD 440	IFD 410
FMS/GPS	•	•	•	•	•	•
VHF NAV	•		•		•	
VHF COM	•		•		•	
3D SVS	•	•	•	•	•	•
ARS + DYNAMIC SVS	•	•				
WiFi/BT/FLTA	•	•	•	•	•	•
Radar	Opt	Opt	Opt	Opt	From 5-series	From 5-series
Video	Opt	Opt	Opt	Opt	N/A	N/A



IFD540/510*



IFD440/410*

AXP340: PANEL MOUNT

As part of our SkyTrax ADS-B line, the ADS-B Out AXP340 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/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.

AXP322: REMOTE MOUNT

The ADS-B Out AXP322 transponder is a remote-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

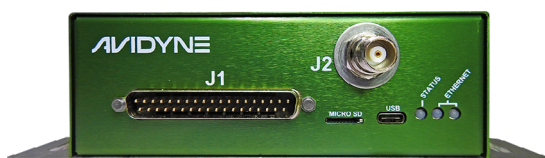


It is designed to be controlled with Avidyne's IFD Series GPS/NAV/COM systems. It transmits the required ADS-B Out signals including your aircraft's GPS-derived position via 1090MHz, along with ground track, ground speed and altitude information.

SKYTRAX100B

978MHz ADS-B In solution

Using the 978MHz datalink frequency band, which is one of two channels available to pilots in the United States airspace for ADS-B In, Avidyne's SkyTrax100B ADS-B In Receiver provides Flight Information System-Broadcast (FIS-B) weather information, including NEXRAD radar, METARs, TAFs, AIRMETs, SIGMETs, Special Use Airspace (SUA), and Temporary Flight Restrictions (TFRs).



The SkyTrax100B will also receive traffic information directly from nearby 978MHz-equipped aircraft, and indirectly through the rebroadcast of 1090MHz-equipped aircraft via 978MHz ADS-R. Traffic information from aircraft not participating in ADS-B is received from ground stations via 978MHz TIS-B transmissions (Traffic Information Service-Broadcast).



Receives ADS-B/R Traffic



Receives ADS-B Weather



Display Port For ADS-B Traffic



2 Display Ports For ADS-B Weather

SKYTRAX600: TAS

Active Traffic with ADS-B

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 SkyTrax600 Series, Avidyne offers three different TAS-A systems (SkyTrax605, SkyTrax615 and SkyTrax620), 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 SkyTrax600 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, SkyTrax600 systems actively interrogate other aircraft with or without 1090MHz ADS-B IN and provide hybridized, timely audible and visual alerts with the precise location of conflicting traffic. The SkyTrax600 Series provides full-time protection and higher performance. Because when it comes to safety, you want to see the whole picture.



Dual Antennas provide optimal signal coverage



Actively interrogates nearby transponders



Optimal situational awareness and safety



6 Display ports for ADS-B traffic

DFC90

Precision of flight and improved safety

Avidyne's DFC90 Attitude-Based Digital Autopilot enhances precision of flight and improves safety for Entegra-equipped Cirrus. The DFC90 adds the precision of an attitude-based flight control system and Avidyne's innovative, safety-enhancing Envelope Protection (EP®) capability and Envelope Alerting (EA®).

The DFC90 has all the standard vertical and lateral modes of operation of a turbine-class autopilot system, including:

Enhanced Flight Director (FD), Altitude Hold (ALT), Airspeed Hold (IAS), Vertical Speed Hold (VS), Heading (HDG), and Navigation (NAV, APPR, LOC/GS, GPSS)



The STRAIGHT & LEVEL button recovers the aircraft from unusual attitudes. Overrides all autopilot modes and levels the aircraft in both pitch and roll from a wide range of capture attitudes for an added measure of safety.

Customers upgrading from the S-TEC 55X servos will notice several major performance and feature improvements.

The DFC90 is also available for select C182 and Bonanza models that are currently equipped with legacy STEC autopilot using the Aspen EFD1000.

AMX240

The latest in audio management

The AMX240 is a full-featured audio source selector panel, intercom, and marker beacon receiver that provides outstanding features and sound quality, while incorporating large, easy-to-read, LED backlit buttons provide simple mode selection and at-a-glance annunciation of your current audio and intercom configuration.



Supporting three transmitter inputs, nine receiver inputs, plus two inputs for stereo music and five unswitched inputs, the AMX240 also features a six-place high-fidelity stereo intercom, public address (PA) function, plus Bluetooth® music and full-duplex cell phone interfaces. The AMX240 also includes dedicated COM1 and COM2 "Monitor" selection buttons to take advantage of the Avidyne IFD's ability tune the Standby frequency while also transmitting and receiving on the active frequency.



Six-place HiFi stereo intercom



Slide-in replacement of GMA340



PA function



Dedicated replay button



Bluetooth® music



Cell phone interfaces

IFD100 APP FOR iPad®

Get big glass with added functionality

Avidyne's IFD-Series are the only FMS/GPS Navigators in aviation offering both built-in Bluetooth® and WiFi. With that, all IFDs offer a WiFi connection to Apple iPads with the Avidyne IFD100 iPad app. This app acts as an additional instance of an IFD, where you can edit your flight plan, monitor your map for ADS-B weather & traffic, and independently view pages. Even if you have the smaller-glass IFD400-Series, your IFD100 display will provide Big Glass capabilities at a fraction of the cost.

Portrait Mode



Landscape Mode



IFD TRAINER FOR iPad®

Fly it. Learn it. Love it.



Learn what makes the IFD GPS/NAV/COM one of the most intuitive, feature-rich flight management systems in the sky, for FREE. Get hands on experience with the IFD, become familiar with the Page & Tab interface, touchscreen with knobs and buttons, get special tips and tricks, training videos and more! Download the IFD Trainer for iPad for FREE today from the Apple Store!

CUSTOMER SUPPORT

Our customer and technical support teams are here to ensure your experience with Avidyne is best in class. The customer and technical support teams are available to answer any question you may have regarding the operation, installation and latest updates for your Avidyne equipment. To best serve our pilots, we have created a number of helpful resources that will allow you access to the latest information, documentation, tips and tricks, and more.



Knowledge Base

Everything from warranty to software updates, how to set up your IFD100 app, training information and more.



Training

Expert training for people who want to know all the features of their new equipment.



Product Documentation

All installation, technical and service information for Avidyne's full product line.

AVIDYNE PILOT CLUB

We appreciate our Avidyne pilots. We wouldn't be here if it weren't for you! That's why we created the Avidyne Pilot Club. The Avidyne Pilot Club is an elite group of pilots who share more in common than just the joy of flying; they love their Avidyne equipment. As a Pilot Club member, you gain exclusive access to insider news, Avidyne gear, merchandise, and special benefits. What's more, if you tell a pilot friend about Avidyne and it results in a purchase, you could be eligible for special offers, discounts and possible upgrades. Join today!

On Facebook? Join the Avidyne Pilot Club Group for the latest news, updates and promotions! facebook.com/groups/AvidynePilotClub

* Closed group. Must have Avidyne product to participate. *

WHAT OUR PILOTS ARE SAYING



Baron Pilot

When I purchased the Baron, I knew I was going to add a GPS to the stack. While doing my research, I downloaded Avidyne's simulator and instantly fell in love with the IFD's logic. Put simply, the IFD is more of an FMS logic while the competition is a traditional GPS. www.youtube.com/baronpilot



Martin Pauly

It's impossible to not love the Avidyne IFDs. After replacing my older 530/430 with the new IFDs, the improvements jump out on every flight. My personal favorites: the complete navigation and guidance capabilities of a real flight management system and the ease of nav database updates without special hardware and tools. www.youtube.com/martinpauly



310 Pilot

Recently, we decided to upgrade our old GNS system. We visited with multiple manufacturers producing replacements. It was a unanimous decision, we decided to upgrade to a full Avidyne avionics suite. I've had the pleasure of flying with the full suite and I'm absolutely loving our decision to upgrade with Avidyne more and more. www.youtube.com/310pilot



Bill Elliot, Legendary NASCAR Driver

Going fast is my business. I don't have a lot of time to spend entering flight plans. Their FMS makes it fast and easy. The install process is seamless with very little downtime. It's one of the many reasons I chose to go with Avidyne.



Charlie Precourt, NASA Astronaut/Shuttle Commander

I have found the combination of total capabilities and lower cost make it a great solution. Being able to do my preflight at the office, file a flight plan on Foreflight® and then load all the data to the IFD FMS via WiFi is a huge feature for me. Saves lots of time on the ground and ensures accuracy of input.

Avidyne Corporation

710 North Drive
Melbourne, FL 32934 USA

800.AVIDYNE
sales@avidyne.com

avidyne.com

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