



## GTX 345R

Part Number: 010-01217-01

**\$4,995.00 USD**

Processing time is 3–5 weeks.

Version

Standard

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### Remote-mount Transponder Solution for ADS-B “Out” and “In”

- 1090 MHz ADS-B “Out” enables aircraft to operate at any altitude, in airspace around the globe
- Combines Mode S Extended Squitter (ES) transponder and optional WAAS/GPS position source in a single unit
- Provides access to dual-link ADS-B “In” traffic and subscription-free weather on compatible displays
- Wirelessly stream weather, traffic, GPS position and backup attitude via Connex™ link to Garmin Pilot™ and ForeFlight Mobile apps as well as the aera® 795/796 Garmin portables
- Compatible with a variety of Garmin cockpit displays – including G1000® and GTN™ 750/650 series – which offer transponder code entry and control



With the introduction of the GTX 345R remote-mounted Mode S Extended Squitter (ES) transponder, Garmin provides the ideal upgrade path for aircraft operators looking to satisfy NextGen requirements for ADS-B “Out” – while providing all the weather and traffic benefits of ADS-B “In” with select G1000, GTN 750/650 and other 3<sup>rd</sup> party avionics. What’s more,

**Related**

- [Software](#)
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**Compatible Products**

- [GTN™ 750](#) \$16,900.00 USD and Up
- [G500](#) \$15,995.00 USD and Up
- [GTS™ 800 TAS](#) \$9,995.00 USD and Up

**You May Also Like**

- [GDL® 69/69A SXM](#) \$3,875.00 USD and Up
- [GMA™ 350](#) \$1,995.00 USD and Up
- [GNC 255](#) \$4,495.00 USD and Up



the GTX 345R is also optionally available with a built-in WAAS GPS position source, so everything needed to meet the ADS-B equipage rules can be provided with this all-in-one upgrade package installation.

## Your Transition to NextGen Made Simple

Offering more fielded ADS-B solutions than any other brand in the industry, Garmin is committed to making the transition to NextGen airspace as seamless and cost-efficient as possible. The IFR-certified GTX 345R is a prime example. It's an all solid-state design, which makes for lower power consumption and enhanced reliability, compared to earlier-generation transponder technology. Plus, the unit's 1090 MHz ADS-B "Out" transmission capability (using precise GPS-referenced positioning information) enables the GTX 345R to automatically output the more accurate, more dynamic traffic surveillance data that the NextGen airspace system requires. In addition, available ADS-B "In" reception unlocks even more capabilities for pilots, enabling them to display ADS-B traffic, weather and more on a variety of installed or portable displays.



## Enhanced Traffic Surveillance

Using 1090 MHz extended squitter ADS-B "Out" transmission, the Garmin GTX 335R improves upon the existing transponder query system – while working seamlessly with existing ATC protocols – to provide ground controllers with considerably faster updates than traditional radar. And by simultaneously broadcasting this information to ADS-B "In" display-equipped pilots, it enables them to essentially see the same traffic picture for their location that ATC is watching on the ground.

## See the Benefits of ADS-B "In"

As an added bonus, the GTX 345R also makes available the subscription-free weather and traffic display capabilities enabled by ADS-B "In" – which can be interfaced with compatible cockpit displays, including select G1000 and GTN 750/650 systems, or streamed wirelessly via Garmin Connex™ to our aera 796/795 series portables, as well as to popular tablets/mobile devices by way of apps such as Garmin Pilot™ or ForeFlight Mobile. The ADS-B weather link is continuously broadcast on the 978 MHz Universal Access Transceiver (UAT) frequency, and is similar to the basic services offered by leading commercial satellite weather providers. For example, you can access NEXRAD imagery, METARs, TAFs, winds and temperatures aloft, PIREPs, NOTAMs, and more! Along with this, you can also receive ADS-B traffic position reports (and threat-level symbology) to help you see-and-avoid converging targets in busy airspace. Spoken audio alerts call out potential flight path conflicts ("Traffic, 10 O'Clock, same altitude, two miles") to get you looking in



the right direction. Meanwhile, on your cockpit display, Garmin's patent-pending TargetTrend™ relative motion display<sup>1</sup> offers a faster, more intuitive way of judging target trajectories and closure rates in relation to your flight path. As an added safety feature, available on most new Garmin products, our TerminalTraffic™ technology provides a comprehensive picture of ADS-B equipped aircraft and ground vehicles in the airport environment. ADS-B equipped aircraft in flight are easily distinguished from ground vehicles and taxiing aircraft, which are displayed using distinct colors and symbols. All of this information is presented on a simple, easy-to-understand SafeTaxi® diagram which references the location of runways, taxiways, hangar locations and more.

## Dual-link Completes the Picture

The GTX 345R ADS-B receiver is a dual-link system. So, it can receive on both frequencies (978 MHz and 1090 MHz) authorized for ADS-B operations in the U.S. Not only does this provide the most complete traffic picture from aircraft transmitting on either frequency, but it also enhances your aircraft's ability to access ADS-B transmissions and services from virtually anywhere. When integrating an active traffic system with the GTX 345R, ADS-B traffic and active traffic targets are merged on the display to give pilots a truly comprehensive traffic picture.

## ADS-B for Your Integrated Flight Deck

With a variety of compatibilities covering most fielded displays, our ADS-B enabled GTX series transponders offer the easiest NextGen upgrade path available from Garmin – especially for owners of select G1000-equipped aircraft. For these systems, the remote-mount GTX 345R interfaces with either the aircraft's existing WAAS position source for navigation or uses an optional built-in WAAS position source to meet ADS-B "Out" requirements. The G1000 series displays interface with the remote GTX transponder to provide onscreen squawk code entry and control in the conventional manner. Depending on the software version installed, your Garmin glass displays can also support subscription-free weather on the MFD – as well as ADS-B traffic targets on both the MFD and PFD displays for aircraft equipped with Synthetic Vision Technology (SVT™).

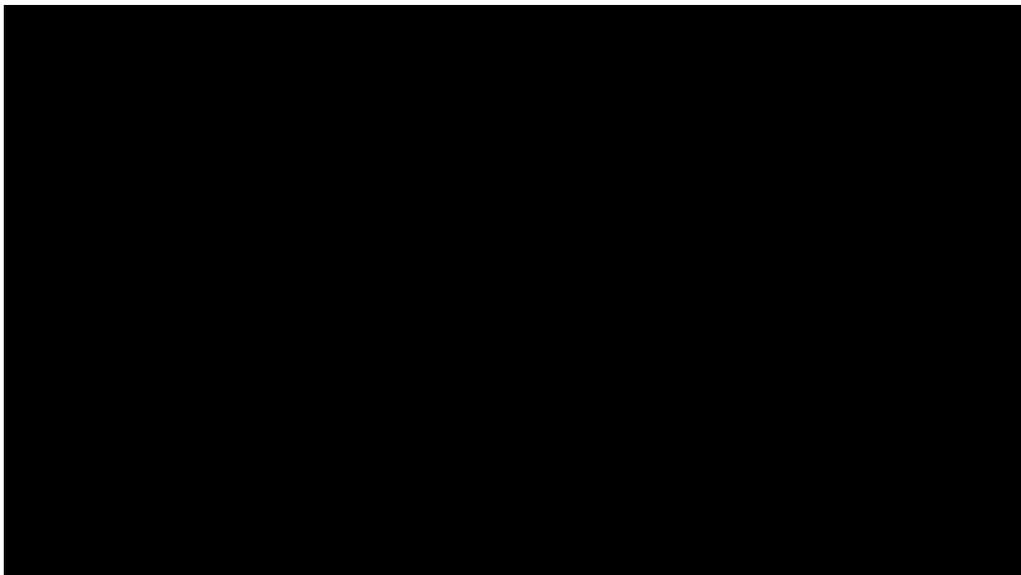


## Alerting and Altitude Encoding Made Simple

For added situational awareness, the GTX 345R incorporates a built-in audio output for audible traffic and altitude alerts<sup>1</sup>, which can be integrated into your existing audio panel. You can also pair the GTX series with an optional Garmin altitude encoder to satisfy data transmission requirements for IFR. As opposed to other transponders with altitude encoding built in, the Garmin altitude encoder mounts separately on the install rack. So, should the transponder ever require removal, there's no need for the static line to be disconnected. Which, in turn, eliminates the need for a follow-on leak check – and thus helps minimize ongoing service costs.

## An Easier Path to NextGen

The Garmin GTX 345R series is being FAA approved for installation on hundreds of today's most popular aircraft makes and models. For decades, Garmin has led in the development and deployment of ADS-B technology. And when you compare all the options available, it's clear that Garmin is committed to making your transition to ADS-B operations as simple, economical and worry-free as possible.



<sup>1</sup>Garmin ADS-B compatibilities cover a wide range of systems and displays; however, not all functions may be available for every configuration. Please check the Compatibility tab for more specifics or limitations that may apply to your system.

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