

GTX 345/335 series ADS-B Transponders

Garmin all-in-one transponder solutions offer a simple ADS-B upgrade path for NextGen airspace requirements.



Add ADS-B to your existing avionics stack with the Garmin GTX 345/335 series:

As the industry leader in ADS-B solutions, Garmin has tailored a full range of transponder-based upgrade options that enable operators to meet ADS-B requirements with minimal expense, downtime and disruption to their panels. As a bonus, these all-in-one Garmin packages can also provide access to subscription-free weather¹ and datalink traffic capabilities offered by ADS-B "In". The all-digital Garmin GTX 345 and GTX 335 are both compact panel-mount units that look and operate like standard Mode S transponders. But with the addition of 1090 MHz ADS-B "Out" transmission capability (using precise GPS-referenced positioning information) both transponders are able to automatically output the more accurate, more dynamic traffic surveillance data that NextGen airspace implementation requires. The GTX 335 model is an ADS-B "Out" only solution, while the GTX 345 adds ADS-B "In" capability as well, enabling it to receive and overlay subscription-free weather¹ and traffic information on compatible displays and select portable devices – by using Garmin Connex™ to wirelessly stream the data via

Bluetooth® technology. For owners who don't already have a WAAS-capable GPS navigator in their aircraft, both transponders also offer the option of a built-in, ADS-B compliant WAAS position source. For added situational awareness, the GTX 345 further incorporates a built-in audio output for audible traffic and altitude alerts¹, which can be integrated into existing audio panels. The GTX series can also be paired with an optional Garmin altitude encoder to satisfy data transmission requirements for IFR. And for even more flexibility, optional remote mount GTX 345/335 versions are available for compatibility with the GTN™ 750/650 series of touchscreen GPS/Comm/Nav systems, as well as the GNS 480 GPS/Comm/Nav and select Garmin G1000® integrated flight deck systems – all of which provide built-in remote transponder code selection and control. The standard size and form factor of the 1.65-inch high GTX 345/335 series panel-mount units assure an easy replacement for most popular Mode S or Mode C transponders – keeping avionics rework and installation downtime to an absolute minimum.

¹Subscription-free weather is a U.S. only service.

Note: Garmin ADS-B compatibilities cover a wide range of systems and displays. However, not all functions may be available for every configuration. Please check Garmin.com/ADS-B for more specifics or limitations that may apply to your system.

GTX 345/335 Series ADS-B Transponders



Spec	Model			
	GTX 335	GTX 335R	GTX 345	GTX 345R
Physical & Performance				
"Physical Dimensions (unit, rack, connectors) (For panel mounts, depth is measured from face of instrument panel)"	1.68"x6.30"x10.07" (42x160x256mm)	1.65"x6.30"x9.9" (42x160x224mm)	1.65"x6.30"x10.07" (42x160x256mm)	1.65"x6.30"x9.9" (42x160x224mm)
Display type	Digital	N/A	Digital	N/A
Weight (unit, rack, connectors)	2.8/2.9lbs (1.27/1.32kg)	2.5/2.6lbs (1.13/1.18kg)	3.1/3.2lbs (1.41/1.45kg)	2.8/2.9lbs (1.27/1.32kg)
Voltage range	14/28VDC (15/17W Max)	14/28VDC (15/17W Max)	14/28VDC (18/20W Max)	14/28VDC (18/20W Max)
Transmit power	200W minimum	200W minimum	200W minimum	200W minimum
Tempertaure	-40°C to +70°C	-45°C to +70°C	-40°C to +70°C	-45°C to +70°C
Operating altitude	To 55,000ft (16,800m)	To 55,000ft (16,800m)	To 55,000ft (16,800m)	To 55,000ft (16,800m)
Cooling input	Not required	Not required	Not required	Not required
Environmental Compliance (TSO Approved)	DO-160G	DO-160G	DO-160G	DO-160G
Software compliance (TSO Approved)	DO-178 Levels B, C, D	DO-178 Levels B, C, D	DO-178 Levels B, C, D, E	DO-178 Levels B, C, D, E
Hardware compliance (TSO Approved)	DO-254 Level C	DO-254 Level C	DO-254 Level C	DO-254 Level C
TSO compliance (Approved)	"TSO-C88b (w/opt. alt. encoder) TSO-C112e (Class 1, Level 2els) TSO-C166b (Class B1S)"	"TSO-C88b (w/opt. alt. encoder) TSO-C112e (Class 1, Level 2els) TSO-C145d (Class B2) TSO-C166b (Class B1S)"	"TSO-C88b (w/opt. alt. encoder) TSO-C112e (Class 1, Level 2els) TSO-C154c (Class A1S) TSO-C157a (Class 1) TSO-C166b (Class A1S) TSO-C195a (Class C1,C2,C3,C4)"	"TSO-C88b (w/opt. alt. encoder) TSO-C112e (Class 1, Level 2els) TSO-C145d (Class B2) TSO-C154c (Class A1S) TSO-C157a (Class 1) TSO-C166b (Class A1S) TSO-C195a (Class C1,C2,C3,C4)"
Mount type	Panel	Remote	Panel	Remote
Transponder type	Mode A/C, S and ES	Mode A/C, S and ES	Mode A/C, S and ES	Mode A/C, S and ES
Squawk code selection	Push-button	Remote entry	Push-button	Remote entry
Traffic Information Services (TIS) alerts compatible	✓	✓	✓	✓
Transponder Features				
Solid state transmitter (more efficient, longer life)	✓	✓	✓	✓
Aural alerts	✓	✓	✓	✓
Total Air Temperature (TAT)	✓		✓	
Pressure altitude readout	✓	N/A	✓	N/A
Altitude monitor function	✓	N/A	✓	N/A
Density altitude readout	✓	N/A	✓	N/A
Built-in timers	✓	N/A	✓	N/A
Automtatic ALT/GND mode	✓	✓	✓	✓
Wireless connectivity to portable device using Garmin Pilot, ForeFlight or compatible Garmin portable			✓	✓
Subscription-free weather and traffic			✓	✓
Internal AHRS (non-certified)			✓	✓
1090 MHz ADS-B Out	✓	✓	✓	✓
Dual-link 1090MHz and 978MHz UAT ADS-B In			✓	✓
Built in GPS/WAAS receiver	Optional	Optional	Optional	Optional
Displays on G500/G600, GTN 650/750, GNS 430W/530W, and others	✓	✓	✓	✓
"Pressure altitude encoder module (mounts to connector backplate)"	Optional	Optional	Optional	Optional
Night vision compatible (335NV specs same as 335)	Optional			
TAS/TCAS traffic integration with ADS-B In			✓	✓

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