



GTX 345

GTX 327

## TECHNOLOGY EVERYONE CAN IDENTIFY WITH

With all solid-state designs and powerful 200- to 250-watt transmitters, the Garmin family of GTX series transponders brings ATC aircraft surveillance to new levels of precision, reliability, and performance.

What's more, with optional TSO-C166b authorization for 1090 MHz Extended Squitter (ES) transmission capabilities, Garmin has taken a leading role in providing an affordable pathway to ADS-B compliance for the FAA's Next Generation airspace system – as well as fulfilling the needs of other international ADS-B initiatives. The GTX 345 and GTX 335 transponders meet ADS-B requirements as a certified 1090 MHz ADS-B "Out" solution, when paired with a compatible WAAS position source or upgraded to include an internal GPS position source. Automatically transmitting aircraft flight ID, position, altitude, velocity, climb/descent, and heading information, Garmin GTX 345 and GTX 335 transponders provide precise dynamic reference to Air Traffic Control, as well as to other ADS-B equipped aircraft sharing the airspace.

The GTX 345 all-in-one ADS-B transponder offers Extended Squitter (ES) ADS-B Out with options for built-in WAAS, as well as dual-link ADS-B In, which unlocks more capabilities for pilots by displaying subscription-free

weather<sup>1</sup> and advanced ADS-B traffic, incorporating exclusive features such as TargetTrend™ and TerminalTraffic™, on a wide variety of current and legacy Garmin displays, including select G1000® Integrated Flight Decks, G500/600 flight displays and GNS 430W/530W navigators. When paired with an active traffic system, the GTX 345 also combines ADS-B traffic targets and active traffic targets to display a comprehensive traffic picture, and it can be integrated into the aircraft's audio panel to provide ATC-like audible alerts, such as "Traffic: 10 O'Clock, same altitude, two miles" to help pilots keep their eyes outside the cockpit when looking for traffic. What's more, the GTX 345 provides, via Bluetooth® and ConnexT® wireless technology, ADS-B traffic, weather, GPS position data and back-up attitude information on the Garmin area 660/796/795 portables and popular Garmin Pilot™ and ForeFlight Mobile apps. And the GTX 345 comes in an attractive size and form factor, making it easy to replace the most popular transponders in the industry. Remote-mount options are also available.

The GTX 335 ADS-B transponder offers Extended Squitter (ES) ADS-B Out with options for built-in WAAS. It comes in an

SPECIFICATIONS	
<b>GTX 345 / GTX 335</b>	
<b>Unit Size:</b>	1.65" x 6.30" x 10.07" (42 x 160 x 256 mm)
<b>Display type:</b>	Digital
<b>Weight:</b>	3.1/3.2 lbs (1.41/1.45 kg)
<b>Voltage range:</b>	14/28 VDC (18/20 W Max)
<b>Transmit power:</b>	200 W minimum
<b>Temperature:</b>	-40° C to +70° C
<b>Operating altitude:</b>	To 55,000 ft (16,800 m)
<b>Cooling input:</b>	Not required
<b>Environmental compliance (TSO Approved):</b>	DO-160G
<b>Software compliance (TSO Approved):</b>	DO-178 Levels B, C, D, E
<b>Hardware compliance (TSO Approved):</b>	DO-254 Level C
<b>TSO compliance (Approved):</b>	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)
<b>Mount type:</b>	Panel
<b>Transponder type:</b>	Mode A/C, S and ES
<b>Squawk code selection:</b>	Push-button
<b>GTX 327 / GTX 32</b>	
<b>TSO compliance:</b>	C74c Class 1A
<b>Temperature Range:</b>	-20° C to +55°C (Continuous Operation)
<b>Power Requirements:</b>	11-33 VDC; Max Power Input: 15 Watts
<b>Humidity:</b>	95% @ +55°C for 16 Hours; 85% @ +38°C for 32 Hours
<b>Altitude:</b>	50,000 Feet
<b>Transmitter Freq.:</b>	1090 MHz
<b>Transmitter Power:</b>	200 Watts Nominal
<b>Receiver Frequency:</b>	1030 MHz
<b>Receiver Sensitivity:</b>	-74dBm Nominal for 90% replies
<b>Mode A Capability:</b>	4096 ident codes
<b>Mode C Capability:</b>	100 Foot Increments from -1000 to 63,000 feet
<b>Ext. Suppression Input:</b>	Lo<0.5V; High > 8V
<b>Weight:</b>	3.1 lbs (1.4 kg) installed with rack & connectors
<b>Dimensions:</b>	Bezel Width = 6.25" (159 mm) Bezel Height = 1.65" (42mm) Depth = 8.73" (222 mm)

attractive size and form factor, making it easy to replace the most popular transponders in the industry, and remote-mount options are also available.

For Mode C operation, Garmin offers the affordable GTX 327 panel-mount transponder with dedicated pushbutton keys for code selection. A remote-mount version, the GTX 32, is also available for use with the GTN 650/750 touchscreen series, which allow for built-in transponder mode and code selection.