



TTR-2100/TTR-4100 AIRBORNE COLLISION AVOIDANCE SYSTEM/TRAFFIC COMPUTER

ADVANCED, LIGHTWEIGHT COLLISION AVOIDANCE

The TTR-2100 TCAS II traffic computer is the latest update to Collins Aerospace's federated TCAS and surveillance products. It enables TCAS II operations and is ready for a future upgrade to Automatic Dependent Surveillance-Broadcast (ADS-B) In* applications via common traffic computer architecture.

Certified by the Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA), the TTR-2100/4100 offers weight and capability advantages over previous generation systems. It replaces the TTR-920 and TTR-921.

The TTR-4100 delivers all the capabilities of the TTR-2100, with reduced size, weight and power requirements that make it an ideal choice for helicopters and business and regional aircraft.

PROVEN DESIGNS

Development of the TTR-2100/4100 TCAS II began during the design of the Integrated Surveillance System (ISS-2100) for the Boeing 787. The ISS-2100 integrated weather radar, TCAS, transponder and terrain awareness into one system. Soon after, the Traffic Surveillance System (TSS-4100) integrated the TCAS and transponder and was certified for business and regional aircraft.

Proven surveillance technologies from the ISS-2100 and TSS-4100 systems were leveraged in the development of the TTR-2100/4100. These state-of-the-art safety enhancements simplify and improve situational awareness in increasingly crowded airspace. The TTR-2100/4100 represents the latest innovations as part of a complete refresh of the Collins Aerospace TCAS product line.



KEY FEATURES

- Simplified design with no manual tuning
- Maintains existing phase-based TRE-920 antennas
- ADS-B In provisioned
- TCAS 7.1 compliant
- Certified by FAA TSO C119C, DO-185B, DO-178B, DO-254, DO-160F
- Certified by EASA TSO C119C, ED-143, ED-12B, ED-80, ED-14F
- 30 target display capability
- 30-40 NMI maximum
- 5° RMS bearing accuracy, 10 peak

**ADS-B In will be subject to the release of future service bulletins.*



ADVANTAGES OF INNOVATION

Both the TTR-2100 and TTR-4100 are functional replacements for the TTR-920, TTR-921 and TTR-4000 digitally equipped systems and use existing TCAS control panels, wiring and TRE-920 antennas.

All Collins Aerospace products are continually refined for utmost intuitiveness, reliability and efficiency. The TTR-2100/4100 traffic computer benefits from a simplified design with no manual tuning, reduces long-term part obsolescence and guarantees higher reliability. These improvements are accompanied by lower power consumption and a weight reduction of nearly four pounds, compared with previous TCAS systems.

The TTR-2100/4100 TCAS system consists of one transmitter receiver, two TRE-920 TCAS directional antennas, a TTC-920(x) control panel and a flight deck forward-field-of-view display to integrate the traffic display for the pilot.

Existing TCAS systems will be eligible for replacement via original equipment manufacturer service bulletins or Collins Aerospace supplemental type certificates.

TTR-2100 SPECIFICATIONS

Part numbers	822-2911-001/ 822-2911-002/ 822-2911-020/822-2911-021
Size	6 MCU: 7.64" H x 7.68" W x 15.26" D (194.1 x 195.1 x 387.6 mm)
Weight	14.8 lbs. (6.7 kg) max, 13.9 lbs. (6.3 kg) nominal
Power required	115 V AC, 400 Hz, 70 W max, power factor > 0.90, 35 W nominal

TTR-4100 SPECIFICATIONS

Part number	822-3075-001
Size	4 MCU: 7.64" H x 5.06" W x 15.26" D (194.06 x 128.52 x 387.6 mm)
Weight	13.7 lbs. (6.2 kg) max, 12.7 lbs. (5.8 kg) nominal
Power required	28 V DC, 50 W max, 35 W nominal



Specifications subject to change without notice.



Collins Aerospace
+1.319.295.4085
csmarketing@rockwellcollins.com
collinsaerospace.com