Trimble AV37

HIGH PERFORMANCE FOR AIRBORNE, MAPPING AND SURVEYING

The Trimble AV37 GNSS Aviation Antenna has been designed to support centimeter level accuracy for airborne applications and track SBAS signals all in one compact design. It is fully certified by the FAA for aircraft installations.

ROBUST, LOW-MULTIPATH GPS ANTENNA

Mapping and surveying from the air using GNSS requires survey grade antenna technology in a compact and reliable form factor. The Trimble AV37 GNSS Aviation antenna achieves this without compromising performance.

Key Features

► Full support for L1/L2 GPS + GLONASS, E1 Galileo and B1 BeiDou
► Support for L-Band/OmniStar
► Low-profile Fuselage Mounting
► Sub-centimeter phase center repeatability
► Fully certified for airborne installations
**TRIMBLE AV37 GNSS antenna**

**TECHNICAL SPECIFICATIONS**
- L1/L2 GNSS + L-Band Frequency Tracking:
  - GPS: L1, L2
  - GLONASS: L1, L2
  - Galileo: E1
  - BeiDou: B1
  - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and OmniStar
- Quality signal tracking
- TNCF female signal connector
- Small cross-sectional area to reduce wind loading
- Low voltage, low power consumption
- Integral low noise amplifier
- Powered by GNSS receiver via coaxial cable
- High gain for reliable tracking in difficult environments
- FAA airworthiness certificate supplied with each antenna

**PART NUMBERS**
82745 (US)  
82745-10 (Non-US)

**PHYSICAL AND ELECTRICAL SPECIFICATIONS**
- Dimensions ........ 11.9 cm length, 7.6 cm width, 2.3 cm height  
  (4.7" length, 3.0" width, 0.92" height)
- Weight ......................... 0.283 kg (0.625 lbs)
- Operating Temperature............ –55 ºC to +85 ºC (–67 ºF to +185 ºF)
- Altitude ................................≤16,764 m (55,000 ft)
- Finish ............................... Polyurethane enamel, fluid resistant
- Compliance ............................ ROHS
- Designed to ...................... DO-160E, ARINC 743 Footprint,  
  RTCA DO-210D
- MTBF .................................. 122,752 hours for Inhabited Cargo (AIC) environment  
  70,501 hours for Uninhabited Cargo (AUC) environment
- Frequencies ...................... 1570 +/- 45 MHz  
  1238 +/- 21.5 MHz
- Signal gain ......................... 43 dB
- Voltage ............................. 5 V DC to 15 V DC
- Polarization ...................... Right Hand Circular
- Axial Ratio .......................... 3 dB Max @ boresight
- Amplifier .......................... Noise Figure : 2.5 dBMax  
  Impedance : 50 Ohms  
  VSWR : ≤ 1.5

Specifications subject to change without notice.