

KEY FEATURES

Full support for

L1/L2/L5 GPS
G1/G2 GLONASS
E1/E5 Galileo
B1/B2 BeiDou

Support for L-Band/OmniStar/RTX

Low-profile Fuselage Mounting

Sub-centimeter phase center repeatability

Fully certified for airborne installations

ARINC 743 Footprint

Iridium interference protection



TRIMBLE AV39 GNSS ANTENNA

HIGH PERFORMANCE GNSS SUPPORT FOR AIRBORNE AND GROUND VEHICLE APPLICATIONS

The Trimble AV39 GNSS Antenna has been designed to support centimeter level accuracy for airborne and ground vehicle applications and in one compact design. It is fully certified by the FAA for aircraft installations.

ROBUST, CERTIFIED GNSS AVIATION ANTENNA

The antenna resists unwanted signal interference or multipath, which can cause inaccurate measurements. Advanced filtering protects your GNSS measurements from unwanted Iridium interference.

COMPREHENSIVE GNSS SUPPORT

The Trimble AV39 GNSS antenna offers support for present and future GNSS signals, including GPS L5, GLONASS, BeiDou and Galileo. This ensures that the antenna will operate with your present and most likely future GNSS receivers.

FLEXIBILITY

The antenna is an aviation type of design. The bulkhead mounting ensures only the rugged radome is exposed to the elements. This is an ideal design for customers building rugged systems. The antenna can be mounted flush with the airframe or vehicle surface. The TNC connector is located on the underside of the unit ensuring the attached cable is also protected from the environment.

TRIMBLE AV39 GNSS ANTENNA

PERFORMANCE

- Broad GNSS Frequency Tracking Band Including:
 - GPS: L1, L2, L5
 - GLONASS: L1, L2, L3
 - Galileo: E1, E2, E5
 - BeiDou B1, B2
 - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and OmniStar/RTX
- Quality signal tracking
- TNCF female signal connector
- Small cross-sectional area to reduce aerodynamic drag
- 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
- Iridium interference protection

ELECTRICAL

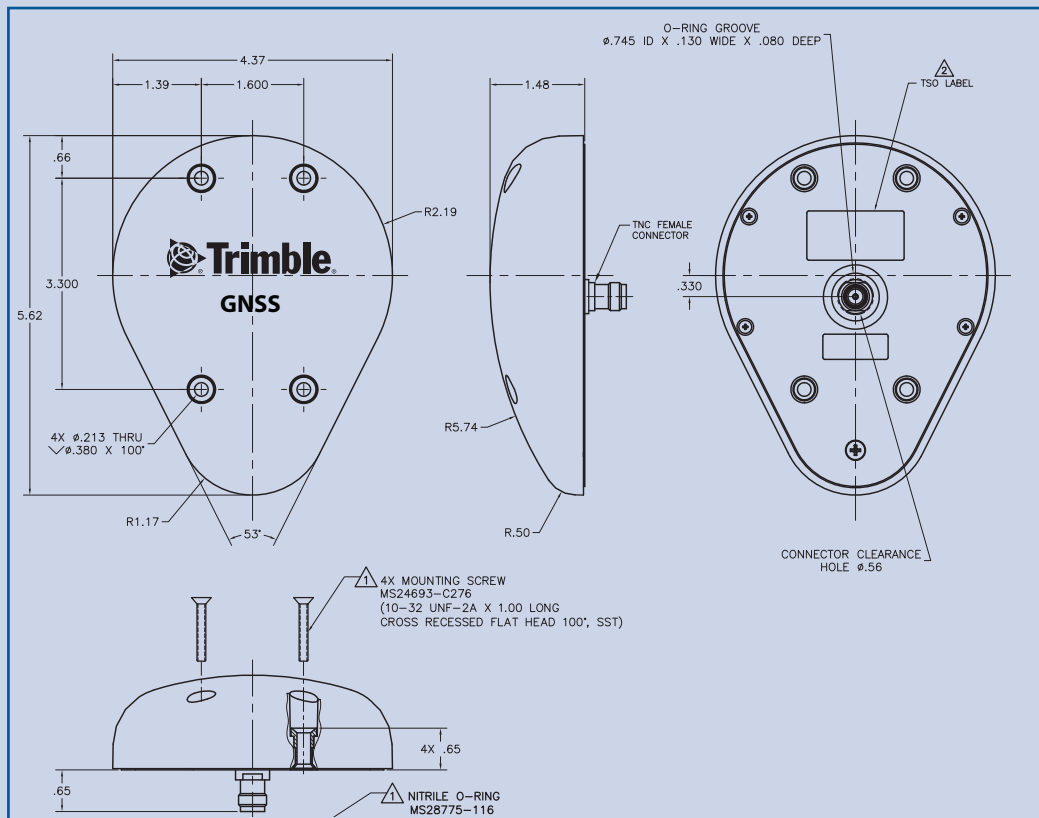
Frequencies	1525-1610 MHz
	1160-1252 MHz
Signal gain	38 dB
Voltage	4.2 to 15.0 VDC
Polarization	Right Hand Circular
Axial Ratio	3 dB Max @ boresight
Amplifier	Noise Figure : 3.5 dBMax
	Impedance : 50 Ohms
	VSWR : ≤ 2.0:1

HARDWARE

Dimensions	14.27 cm length, 11.10 cm width, 3.76 cm height
	5.62" length, 4.37" width, 1.48" height
Weight	0.386 kg (0.85 lbs)
Operating Temperature	-55 °C to +70 °C (-67 °F to +158 °F)
Altitude	≤16,764 m (55,000 ft)
Finish	UV Resistant white radome with aluminum base
Designed to	DO-160E
	ARINC 743 Footprint
	RTCA DO-210D:
Env Cat :	F2-AB[BD][S(CLMY)U(FF1)]HSF5FSZMZZ[RYSR]H[MJ44][2A]CA
TSO	Incomplete TSO-C132

PART NUMBERS

PN 105728 (US)
PN 105728-10 (Non-US)



Specifications subject to change without notice.

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