# **TRIMBLE AV59**

## **KEY FEATURES**

Comprehensive GNSS support, including GPS Modernization signals, GLONASS, BeiDou and Galileo

Rugged Package ideal for vehicle applications

Bulkhead Mounting

Sub-centimeter phase center repeatability



TRIMBLE AV59 GNSS ANTENNA

# **HIGH PERFORMANCE GNSS SUPPORT**

The Trimble AV59 GNSS Antenna has been designed to support centimeter level accuracy on aerial, land and marine applications. The rugged 8 hole bulkhead mounting allows the antenna to be used in the most rugged of environments.

## **COMPREHENSIVE GNSS SUPPORT**

The Trimble AV59 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.

### **ROBUST, LOW-MULTIPATH GPS ANTENNA**

The antenna resists unwanted signal interference or multipath, which can cause inaccurate measurements. Multipath is caused by signals being reflected from surfaces such as the ground, surrounding trees, or buildings..

### 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 machine control systems. The antenna can be mounted flush with the vehicle surface or on the top of a pole mount. The TNC connector is located on the underside of the unit ensuring the attached cable is also protected from the environment.



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#### 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
- Quality signal tracking TNC female signal connector
- Small cross-sectional area to reduce wind loading
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  Low voltage, low power consumption
- Integral low noise amplifier
- 8 recessed bulkhead mounting holes
- Powered by GNSS receiver via coaxial cable
- Rugged radome designed for machine environments
- High gain for reliable tracking in difficult environments

## ELECTRICAL

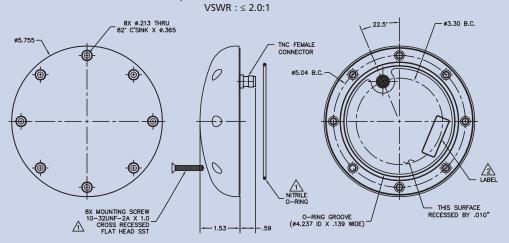
Signal gain	
Voltage	4.2 V DC to 15 V DC
Polarization	Right Hand Circular
Axial Ratio	3 dB Max @ boresight
Amplifier No	ise Figure : 2.6 dBMax
	mpedance : 50 Ohms

#### HARDWARE

Dimensions	
	(5.575 in diameter x 1.53 in height)
Weight	
Operating Temperature	40 °C to +85 °C (-40 °F to +185 °F)
Altitude	≤16,764 m (55,000 ft)
Finish	UV resistant white radome
	with aluminum base
Compliance	ROHS

## **ENVIRONMENTAL QUALIFICATIONS**

CONDITIONS	DO-160D SECTION	STRING CATERGORY	DESCRIPTION
Temperature Variation	5	А	–55 °C to +85 °C, 10°/min, 2 cycles
Humidity	-	Method 507.4	MIL-STD-810-F
Shock		Method 516.5	MIL-STD-818-F Procedure II
Vibration		Method 514.5C-3	MIL-STD-810-F, Section 514.5 CVII



Specifications subject to change without notice.

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