



Trimble GAMS

ANTENNA KIT FOR MOBILE MAPPING APPLICATIONS

WHY USE THE TRIMBLE GAMS? (GNSS AZIMUTH MEASUREMENT SYSTEM)

Working with highly accurate heading measurements greatly helps stem the rate of position accuracy decay during GNSS outages, producing a far more precise association of remotely sensed data to real-world coordinates. The more accurate the heading determination at the start of an outage, the longer a system can stay on target.

The Trimble® GAMS Antenna Kit adds a second antenna to the Trimble MX7 Mobile Imaging System. A moving baseline RTK

solution is computed that uses GNSS phase measurements to get a precise determination of one antenna's position relative to the other. This approach helps eliminate inertial drift errors that are typically produced in single antenna systems when vehicle progress stops. GAMS makes it possible to determine the vehicle's heading very accurately regardless of speed, resulting in the best possible heading accuracy and the best performance in any environment.

Advantages

- ▶ No waiting time until initialization of system is finished
- ▶ No special driving maneuver needed
- ▶ Reduction of mission time
- ▶ Fast recovery after GNSS outages
- ▶ Use for slow or low dynamic vehicles

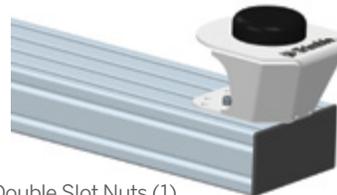
SYSTEM SPECIFICATION

Operating temperature range	-40 °C to +85 °C (-40 °F to 185 °F)
Weight	Ca. 1.5 kg (3.3 lbs) with all fixation possibilities
Maximum speed of vehicle	110 km/h (68 mph)
IP rating	IP 65
RoHS	Compliant

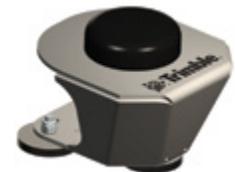
The GNSS antenna is a dual band antenna, able to receive GPS L1/L2 + GLONASS G1/G2 + BeiDou B1 + Galileo E1. Typical LNA gain is 35 dB.



Fix-Plates (2)



Double Slot Nuts (1)



Magnets (3)

Three ways to fasten the GAMS Antenna to the car: Double Slot Nuts (1), Fix-Plates (2) or Magnets (3). All three of these options use the same upper part (the antenna and the construction labled Trimble) only the way it is fixed to the car changes.

Contact your local Trimble Authorized Distribution Partner for more information

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