



Trimble GA830

RUGGEDIZED ANTENNA FOR LAND AND MARINE APPLICATIONS

The Trimble GA830 GNSS antenna is designed to support centimeter level accuracy for land and marine applications. The 5/8" x 11 female threaded mount and rugged enclosure allows the antenna to be used in the harshest conditions.

COMPREHENSIVE GNSS SUPPORT

The Trimble GA830 antenna offers full support for current and near-future GNSS signals from GPS, GLONASS, Galileo, BeiDou and QZSS. Additional L-Band support allows users access to OmniSTAR and Trimble RTX.

ROBUST, LOW-MULTIPATH GPS ANTENNA

The GA830 antenna provides improved signal to noise ratio and optimal low-elevation satellite tracking. High rejection RF filtering further reduces the effects of iridium transmission. Combined with ruggedized housing, GA830 is the ideal antenna for precision RTK position and heading applications for land and marine use.

Key Features

- ▶ Comprehensive GNSS support
- ▶ Robust low-elevation satellite tracking
- ▶ Additional Iridium filter
- ▶ OmniSTAR and Trimble RTX support
- ▶ Ruggedized enclosure for tough environments



Contact NavtechGPS for product details. www.NavtechGPS.com
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TRIMBLE GA830 GNSS Antenna

TECHNICAL SPECIFICATIONS

Broad GNSS Frequency Tracking Band Including:

- GPS: L1, L2, L5
- GLONASS: L1, L2, L5
- Galileo: E1, E5a, E5b, E6
- BeiDou: B1, B2, B3
- QZSS: L1, L2, L5
- SBAS, MSS, RTX, OmniSTAR, LEX, MSK
- Additional rejection between 1614 - 1624 MHz to protect from Iridium transmission
- Robust low elevation satellite tracking
- Improved signal to noise ratio
- Rugged housing ideal for marine and land applications in harsh environments

ENVIRONMENTAL QUALIFICATIONS

Shock:

- 75 Gs, 6ms Duration, 3 shocks in mutually perpendicular axes 2m pole drop, 1m handling drop

Vibration:

- 9.8 gRMS, 24-2000 Hz Buoyant

Humidity:

- 100% humidity proof, Fully Sealed

PHYSICAL AND ELECTRICAL SPECIFICATIONS

Dimensions 14.9 cm diameter x 9.9 cm height
(5.87 in diameter x 3.89 in height)

Weight 0.82 Kg (1.8 lb)

Operating Temperature .. -40 °C to +70 °C (-40 °F to +158 °F)

Storage Temperature -55 °C to +85 °C (-67 °F to +185 °F)

Antenna Cable Connector TNC Sealed

Mounting 5/8"- 11 UNC Thread Sealed
3 x M8 Threaded Hole Surface Mount

Power 110 mA Max

Feed 2 point

H-Field Input (MSK)..... 5.25 - 15 VDC

LNA Gain..... 45 dB

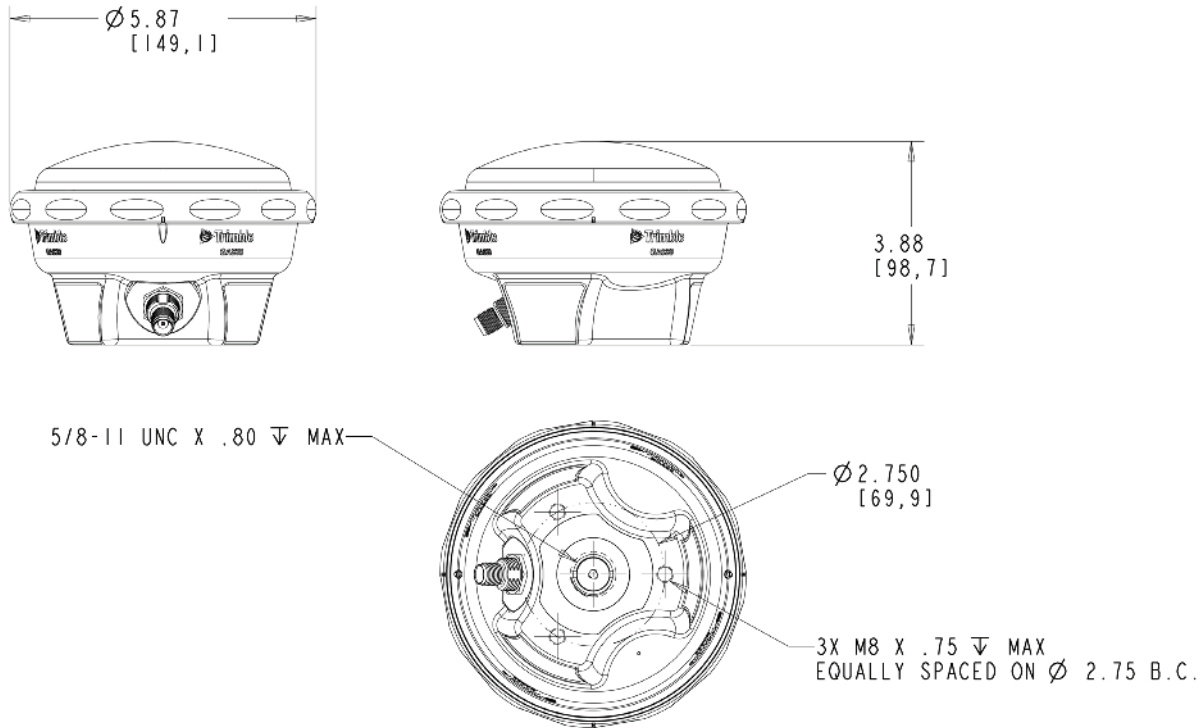
Antenna Compliance..... CE Mark, C-Tick, EN60945

Phase Stability <5 mm

L1 APC..... 0.0885 m above bottom
of the antenna mount

PART NUMBERS

PN 44830-00-INT



Specifications subject to change without notice.

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