

# Specifications

# Trimble GA830 Antenna



## Trimble GA830

Frequencies	GPS/QZSS/SBAS L1, BDS B1, 1551-1585 MHz GLN G1, 1590-1607 MHz GPS/QZSS L2, GLN G2, 1217-1252 MHz GPS/QZSS/SBAS L5, GAL E5, BDS B2, 1160-1214 MHz GAL E6, QZSS LEX, 1260-1300 MHz MSS (MarineSTAR, RTX), 1525-1559 MHz [North America] MSS (MarineSTAR, RTX), 1555-1559 MHz MSK, 283.5-325.0 kHz
Signal Tracking	GNSS, MSS (MarineSTAR, RTX), MSK Beacon, SBAS  Additional high rejection filtering 1614 – 1624 MHz to protect from Iridium transmissions
Dimensions	diameter 14.9 cm x 9.9 cm H (diameter 5.87" x 3.89" H)
Weight	0.82 kg (1.8 lb)
Antenna cable connector	TNC sealed
Operating temperature	-40 °C to +70 °C (-40 °F to 158 °F)
Storage temperature	-55 °C to +85 °C (-67 °F to 185 °F)
Environmental	IEC EN60945 Section 8, Exposed Shock: 75 Gs, 6 ms duration, 3 shocks in mutually perpendicular axes Vibration: 9.8 gRMS, 24-2000 Hz 2m pole drop, 1m handling drop Buoyant
Humidity	100% humidity proof, fully sealed
Feed	2 point
LNA(Low Noise Amplifier) input	5.1 – 15 VDC (110 mA) [SN > 20041] 3.3 - 15 VDC (110mA)
H-Field input (MSK)	5.25 - 15 VDC
LNA(Low Noise Amplifier) gain	L1 45 dB / L2 45 dB
Power handling	110 mA Max
Antenna compliance	CE Mark, C-Tick, EN60945
Phase stability	<5 mm
L1, Antenna Phase Centre (APC)	8.85 cm above bottom of the antenna mount
Mounting	5/8"-11 UNC thread mount 3 x M8 threaded hole surface mount

Notes:

*Specifications subject to change without notice.*

*© 2020, Trimble Navigation Limited. All rights reserved. Trimble, and the Globe & Triangle logo are trademarks of Trimble Navigation Limited, registered in the United States and in other countries. All other trademarks are the property of their respective owners. PN 022482-3119*

**Trimble Civil Engineering and Construction  
Division**

10368 Westmoor Drive  
Westminster, Colorado 80021  
USA  
800-361-1249 (Toll Free)  
+1-937-245-5154 Phone  
+1-937-233-9441 Fax  
[www.trimble.com](http://www.trimble.com)

**Trimble Authorized Distribution Partner**