

Trimble DA2

GNSS RECEIVER FOR THE TRIMBLE CATALYST SERVICE



Simply precise.

Next generation Trimble® Catalyst™ GNSS receiver. DA2 performance scales with your Trimble Catalyst service subscription to deliver anywhere from 1 cm to 60 cm accuracy, and provides support for any field device.

KEY FEATURES

- ▶ Simple, precise, submeter-to-centimeter GNSS accuracy
- ▶ Scalable and flexible accuracy-based pricing
- ▶ Lightweight and rugged design
- ▶ Simple installation and setup
- ▶ Multi-frequency (L1/L2/L5/MSS) capable
- ▶ Powered by Trimble ProPoint™ GNSS positioning technology
- ▶ Supports all global GNSS systems
- ▶ Flexible mounting options
- ▶ Connect wirelessly to iOS and Android™ devices
- ▶ Conveniently USB powered

Learn more: geospatial.trimble.com/catalyst

Trimble DA2 CATALYST GNSS RECEIVER

GNSS PERFORMANCE

SBAS

Horizontal accuracy	0.6 m RMS
Vertical accuracy	1.2 m RMS

Code Differential (DGPS)

Horizontal accuracy	0.3 m + 1 ppm RMS
Vertical accuracy	0.6 m + 1 ppm RMS

Single baseline (<30 km) RTK

Horizontal accuracy	10 mm + 1 ppm RMS
Vertical accuracy	20 mm + 1 ppm RMS

Network RTK

Horizontal accuracy	10 mm + 0.5 ppm RMS
Vertical accuracy	20 mm + 0.5 ppm RMS

Trimble RTX™ (using Trimble Corrections Hub)

Horizontal accuracy	2 cm RMS
Vertical accuracy	5 cm RMS

Post-processed

Horizontal accuracy	10 mm + 1 ppm RMS
Vertical accuracy	20 mm + 1 ppm RMS

Positioning rate	1 Hz, 5 Hz, 10 Hz
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SIGNAL TRACKING

- Trimble ProPoint GNSS positioning technology for improved accuracy and productivity in challenging GNSS conditions¹
- GPS: L1C/A, L2C, L5
- GLONASS: L1C/A, L2C/A
- SBAS: L1C/A, L2C, L5
- Galileo: E1, E5A
- BeiDou: B1, B2A
- QZSS: L1C/A, L2C, L5
- NavIC (IRNSS): L5
- Digital channels: Software controlled by Catalyst dynamic signal tracking using mathematical channels

Notes on Specifications and Testing Procedures

Mechanical performance testing was performed by Trimble with production quality DA2 devices. GNSS performance testing was performed by Trimble with production quality DA2 devices. GNSS performance is dictated by the Catalyst subscription type in use. GNSS accuracy may be affected by anomalies such as multipath, satellite geometry, atmospheric conditions, and proximity to obstructions such as trees, mountains, buildings and other structures. Accuracy specifications are valid in normal conditions with clear line of sight to the sky. Accuracy may degrade quickly and significantly under any of the aforementioned anomalous conditions.

MECHANICAL

Dimensions (Diameter x Depth)	128 x 55 mm
Weight	330 g (11.6 oz)
Ingress protection level	IP65 (dust proof, rain proof)
Drop, shock, & vibration	Survives 2 m tipping falls
	Survives 1.2 m free falls to concrete
	Survives vibrations & mechanical shocks (MIL-STD-810G test method)

Supported Platforms

Android	Android 5.0 (Pie) and higher
iOS	iOS 13.0 and higher

COMMUNICATIONS/CONNECTIVITY

Bluetooth	4.2
Apple	Made for iOS certified
Ports	USB-A (Power only)
Data protocols	NTRIP, VRS, RTCM 3.x, CMRx, DCOL
Position output	NMEA (LLH), DCOL
	Android Location Service
	Apple Location Service
	Android Location Extras

BATTERY AND POWER

Requires external USB battery pack	
External power input	USB-A (5 V 1 A)
Power consumption	0.5–2.5 W

ENVIRONMENTAL

Operating ambient temperature	–20 °C to 60 °C (–4 °F to 140 °F)
Storage temperature	–40 °C to 70 °C (–40 °F to 158 °F)
Operating humidity	95% RH, non-condensing
Operating altitude	Tested to 9,000 m (29,500 ft)

COMPLIANCE

USA: FCC Part 15 (Class B device), Canada: ICES-003; Europe: CE; UK: UKCA; Australasia: RCM. For latest compliance status geospatial.trimble.com/DA2-compliance

IN THE BOX

- Catalyst DA2
- 5/8" thread mount
- USB power cable
- Battery clamping kit
- Documentation

OPTIONAL ACCESSORIES FROM TRIMBLE

- 1/4" thread mount
- Locking 5/8" thread mount
- USB battery pack
- Soft pouch
- 2 m carbon fiber pole
- 2 m aluminium pole
- Antenna backpack, and more

¹ Challenging GNSS environments are locations where the receiver has sufficient satellite availability to achieve minimum accuracy requirements, but where the signal may be partly obstructed by and/or reflected off of trees, buildings, and other objects. Actual results may vary based on user's geographic location and atmospheric activity, scintillation levels, GNSS constellation health and availability, and level of multipath and signal occlusion.



Specifications subject to change without notice.

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