

Trimble DA2

GNSS Receiver for the Trimble Catalyst Service

The Trimble® DA2 GNSS receiver, powered by the Trimble Catalyst™ GNSS System, is an extremely lightweight and portable receiver that delivers high accuracy positioning—perfectly matching the speed and agility needed for building construction layout tasks.

Key features

- Simple, precise centimeter-level GNSS accuracy
- Lightweight and compact design
- Simple installation and setup
- Supports all global GNSS systems
- Multi-frequency (L1/L2/L5/MSS) capable
- Optimized for Trimble FieldLink field software
- Powered by Trimble ProPoint® GNSS positioning technology
- Flexible mounting options
- Wireless connection to Trimble Windows-based tablet devices
- Conveniently USB powered



Find out more at:
fieldtech.trimble.com



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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
Positioning rate	1 Hz, 5 Hz, 10 Hz

STATIC GNSS POSITIONING

STATIC AND FAST STATIC

Horizontal	3 mm + 0.5 ppm RMS
Vertical	5 mm + 0.5 ppm RMS

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: B1I, B1C, B2A

QZSS: L1C/A, L2C, L5

NavIC (IRNSS): L5

Digital channels: All supported signals in view, software-controlled²

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.

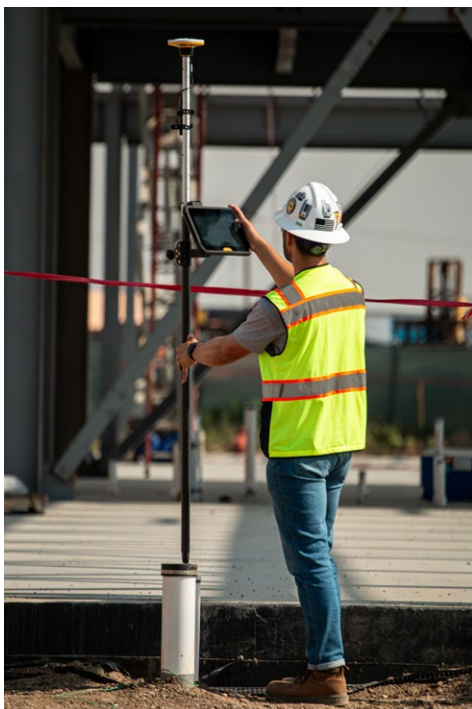
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MECHANICAL	
Dimensions (Diameter x Depth)	128 x 55 mm
Weight	330 g (11.6 oz)
Ingress protection level	IP65 (dust proof, rain proof)
Drop, shock, & vibration	Survives 2 m tipping falls
	Survives 1.2 m free falls to concrete
	Survives vibrations & mechanical shocks (MIL-STD-810G test method)
SUPPORTED PLATFORMS	
Windows®	Version 10 and 11
COMMUNICATIONS/CONNECTIVITY	
Bluetooth®	4.2
Ports	USB-A (Power only)
Data protocols	NTRIP, VRS, RTCM 3.2 MSM, CMRx , DCOL
Position output	NMEA (LLH), DCOL
BATTERY AND POWER	
Requires external USB battery pack	
External power input	USB-A (5 V 1 A)
Power consumption	2.0–2.5 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	

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- 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.
- 2 Based on current GNSS constellations and signal configurations the DA2 can process all supported GNSS signals available by Catalyst dynamic signal tracking.



Specifications subject to change without notice.

Contact your local Trimble Authorized Distribution
Partner for more information

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