**Trimble Catalyst**

**SOFT GNSS POSITIONING SERVICE**

**High Accuracy Positions on Your Device**
Collect accurate data faster and easier by simply plugging the Trimble® Catalyst™ DA1 antenna into your Android™ tablet or smartphone. Select the subscription that matches your accuracy needs and choose the applications that meet the needs of your workflow.

**Trimble Corrections Hub**
Trimble Corrections Hub offers a zero-configuration solution for choosing the best correction source available to you in your current location. The Trimble Catalyst system will choose between SBAS, Trimble RTX, or Trimble VRS Now™ GNSS corrections depending on your subscription and location while the Trimble Corrections Hub operates in a common datum, dynamically switching as required based on your correction source. Furthermore, you can configure your device to connect to third party correction sources for when you’re outside the Trimble VRS Now coverage area; this requires a Sub-meter, Precision or Decimeter subscription.

**Subscribe to an Accuracy Level Based on Your Needs**
Trimble offers various subscriptions of Trimble Catalyst with the ability to adjust as your needs change. Subscriptions are based on positional accuracy and start at one Meter. Intermediate subscriptions include Sub-meter and Decimeter variants, and for the user that requires maximum accuracy, a Precision subscription is available.

**Apps From Trimble and Third Party Partners**
Trimble Catalyst will not only work with applications from Trimble, but also with a variety of apps developed by Trimble partners. For a complete list of Catalyst-enabled third party apps please see [catalyst.trimble.com](https://www.catalyst.trimble.com). Trimble Catalyst can also be used with any third party application that is not Catalyst-enabled by sharing its position over location services on your Android device.

**Mounting Options for Trimble Catalyst DA1**
The Trimble Catalyst DA1 antenna can be mounted on a standard ⅝ inch thread. The threaded adapter is designed to be either unscrewed after each use, or simply left on the pole and pushed on to fit the rubber housing on the bottom of the antenna. Additionally, it can be mounted on a rigid pole with a 1 ¼ inch (32 mm) diameter for applications where mounting on the threaded adapter is not optimal.

**Key Features**
- Cutting-edge Trimble Catalyst positioning technology on your Android smartphone or tablet
- Positional accuracy based on your needs—1 Meter, Sub-Meter, Decimeter, or Precision
- A variety of apps available from both Trimble and third party partners
- Several mounting options for the Trimble Catalyst DA1 antenna
- Automatic datum handling via Trimble Corrections Hub
Performance Specifications

- GNSS signals supported:
  - GPS: L1C/A, L2C
  - Galileo: E1
  - GLONASS: G1
  - QZSS: L1/L2C
  - SBAS: L1C/A WAAS, EGNOS, GAGAN, L1 SAIF QZSS
  - MSS (or L-band): Trimble RTX

- Channels: Track and use up to 32 satellites
- Positioning Rates: 1 Hz, 5 Hz

Positioning Performance

1 Meter Subscription Positioning
- Vertical: 1 m RMS
- Horizontal: 1 m RMS
- Typical time to first meter accuracy positioning: 1 minute

Sub-Meter Subscription Positioning
- Vertical: 0.30 m RMS
- Horizontal: 0.30 m RMS
- Typical time to first sub-meter accuracy positioning: 1 minute

Decimeter Subscription Positioning
- Vertical: 0 mm + 1 ppm RMS
- Horizontal: 0 mm + 1 ppm RMS
- Typical time to first decimeter accuracy positioning: 2 minutes

For all positioning subscription levels with Trimble Catalyst, performance depends heavily on many contributing factors. Accuracy and reliability may be subject to anomalies such as multipath, satellite geometry, atmospheric conditions, and proximity to obstructions such as trees, mountains, buildings, and other structures. Positional accuracy specifications for Trimble Catalyst subscription levels are validated in normal conditions with clear lines of sight to the sky and positional accuracy may degrade quickly and significantly under any of the aforementioned anomalous conditions. Outside of the Trimble VRS Now network and not configured to use a third party network connection, accuracy may be affected. The Trimble VRS Now coverage map is located [here].

Specifications subject to change without notice.

Hardware - Trimble Catalyst DA1 Digital Antenna

Physical
- Dimensions (W x H): 130 mm x 60 mm (5.1 in x 2.4 in)
- Weight: 300 grams (11 oz)
- Temperature: Operating: -20 °C to +60 °C (4 °F to +140 °F)
- Storage: -30 °C to +70 °C (-22 °F to +158 °F)
- Humidity: 95%, condensing/humidity proof
- Ingress Protection: IP65
- Shock and vibration: Tested and meets the following environmental standards: Shock ... Non-operating: Designed to survive a 2 m (6.6 ft) pole drop onto concrete
- Vibration: MIL-STD-810G, Method 546.6 Procedure 1 Category 24
- Altitude: MIL-STD-810G Low Pressure/Altitude Method 500.5, Procedures I, II and III (9000 m/29,500 ft)
- Salt Resistance: MIL-STD-810G test method 509.5
- Chemical Resistance: MIL-STD-810G test method 504.1 Procedure 1
- Micro USB port for external power

Certifications
- FCC Part 15 (Class B device), ICES-003, CE Mark, C-tick

Supported Android Devices

To operate the Trimble Catalyst service with the DA1 antenna, your Android device should meet the following minimum requirements:
- Operating System: Android 5.0 or higher
- Processor: 64-bit CPU with minimum 4x Arm® cores (6x or more recommended)
- Core speed: 1.5 GHz or faster
- Memory: 1.5 GB RAM or higher
- Power consumption: 0.6 W typical (0.85 W maximum)
- Micro USB port for external power

When only meeting these minimal requirements, the Trimble Catalyst system may not perform optimally, especially with applications that require high CPU power. For best performance, use devices with Qualcomm® Snapdragon™ 800 processors or greater, or devices that have been tested and validated by Trimble. A list of devices tested and validated by Trimble is maintained at catalyst.trimble.com.

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