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OPTRON - Regional Sales Manager

Trimble Catalyst DA2 GNSS Receiver

Introducing a brand-new engine at the heart of the Catalyst positioning service

Agenda

- 1 Trimble Catalyst
- 2 Trimble DA2 GNSS Receiver
- 3 RTX - Catalyst Subscriptions
- 4 Software
- 5 Pricing
- 6 Questions | General Discussion
- 7 Social Media

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Trimble Catalyst

Subscription-based GNSS Positioning Service

01

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Why Catalyst?

It has never been this easy to get professional grade GNSS positions!



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What is Catalyst?

Trimble Catalyst is a revolutionary offering from Trimble that uses a software defined GNSS receiver technology.



- The solution enables a customer to subscribe to the Catalyst service in order to enable the GNSS receiver to operate at a level of accuracy related to their subscription level.
- Catalyst consists of the DA2 receiver, a power bank of your choice, any Android or iOS device, and your application.

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Trimble Catalyst is...

INEXPENSIVE



- Minimal upfront hardware cost
- Corrections bundled with the subscription
- Less of your money tied up in capital assets

FLEXIBLE



- Ready to use on-demand worldwide
- Scalable for individuals, small teams and large crews
- Modify as your needs change

SIMPLE



- Zero-configuration access to Trimble corrections
- Works with nearly any location enabled app

POWERFUL



- High quality performance
- Full survey grade precision

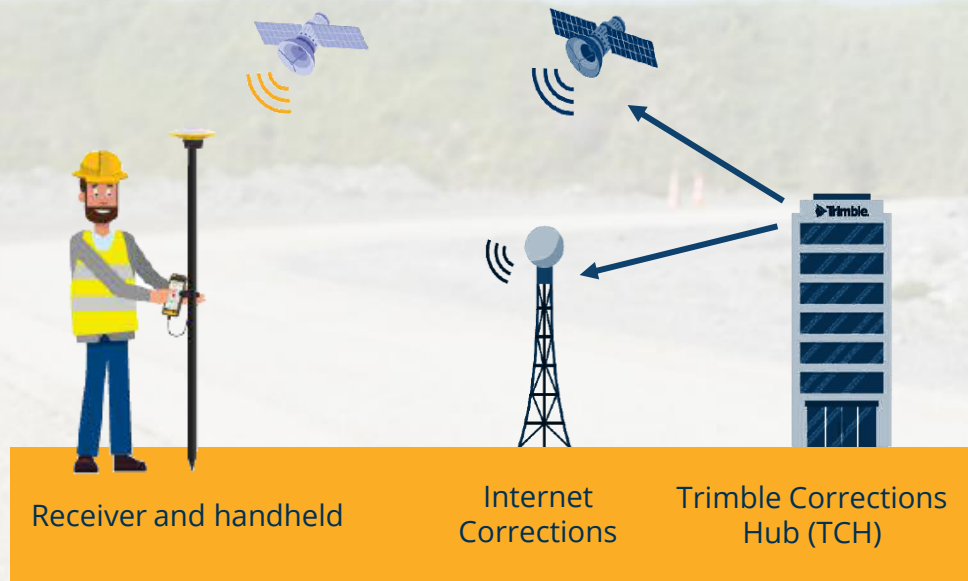
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What about “Corrections”?

Corrections are applied to raw GNSS data making positions accurate and reliable.

Satellites for raw positioning

Satellites for positioning corrections



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Trimble DA2 GNSS Receiver

for the Trimble Catalyst Positioning Service

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DA2 Key Features

iOS & Android



Bluetooth Delivery



Versatile



Lightweight



ProPoint Technology

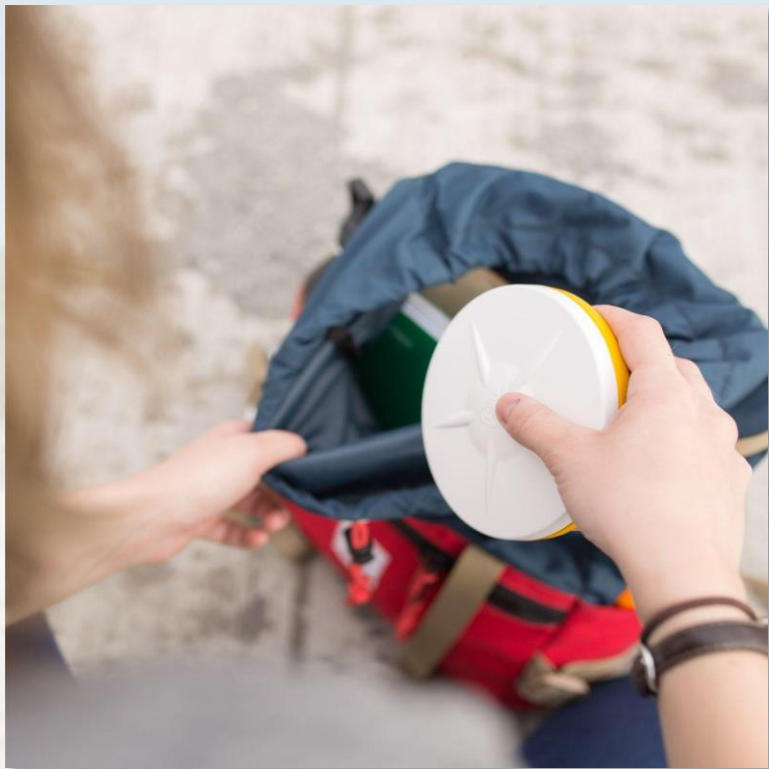


Catalyst Positioning



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Catalyst Technology



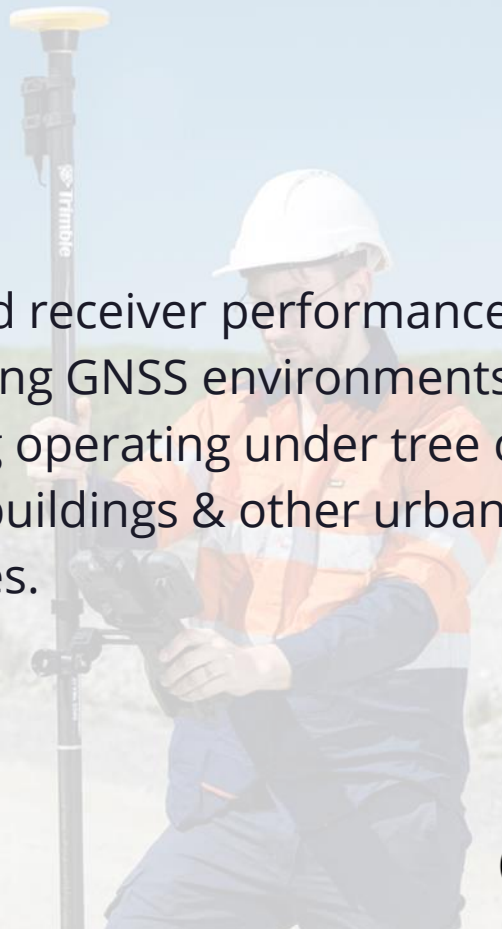
Trimble Catalyst is a revolutionary GNSS concept, simplifying the way that precise GNSS positioning is delivered

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ProPoint Technology



Improved receiver performance in challenging GNSS environments - including operating under tree canopy or near buildings & other urban structures.



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GNSS Performance



Network RTK

Positioning rates.....1 Hz, 5 Hz, 10 Hz

Positioning Engine: Powered by **Trimble ProPoint** GNSS positioning technology

Satellite Signals Tracked Simultaneously:

GPS: L1C/A, L2C, L5

GLONASS: L1C/A, L2C/A

SBAS (WAAS, EGNOS, GAGAN, MSAS, SDCM): L1C/A, L2C, L5

Galileo: E1, E5A

BeiDou: B1, B2A

QZSS: L1C/A, L2C, L5

NavIC (IRNSS):..... L5

L-Band:..... Trimble RTX Corrections

Channels: Software-controlled signal management with dynamic (virtual) channel allocation

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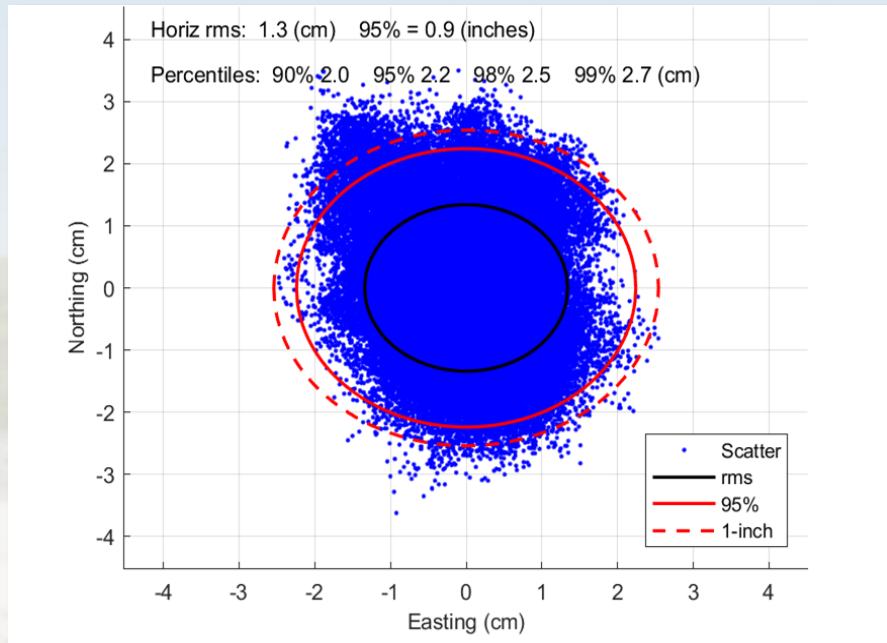
Mechanical Design

Weight (DA2 only):.....	330 g
Water & Dust	IP65 (dust proof, rain proof)
Drop (tipping pole fall onto concrete).....	Survives 2 m tipping falls
(free fall onto concrete).....	Survives 1.2 m free falls



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DA2 Performance | RTX Accuracy



RTX accuracy

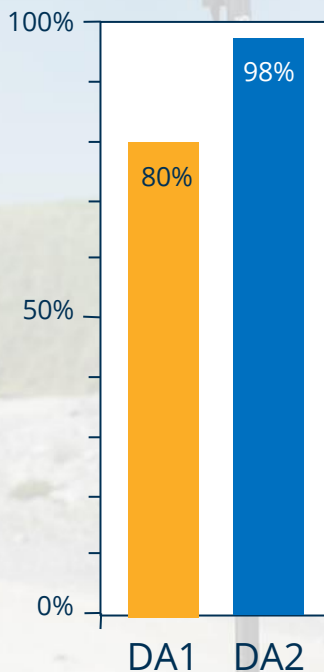
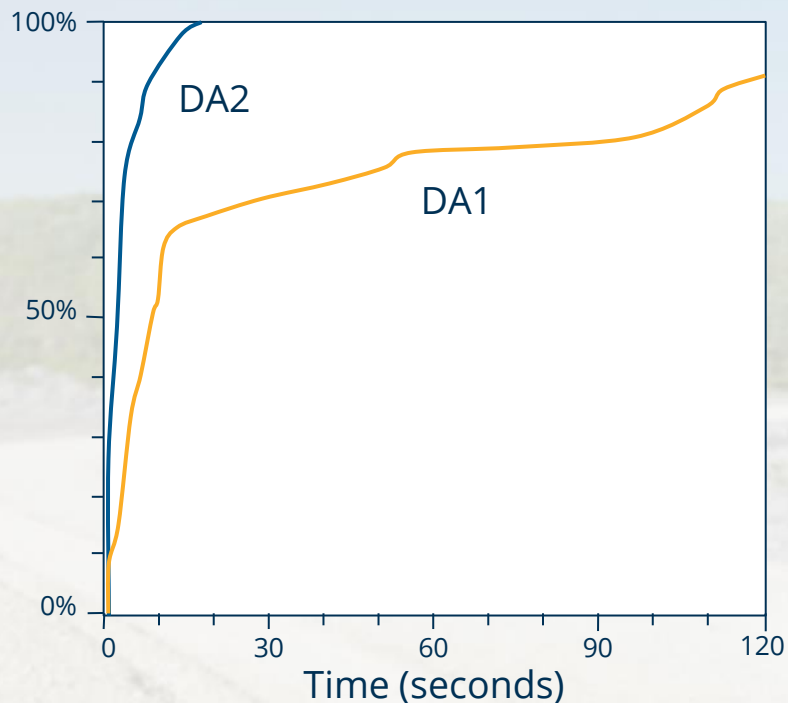
RTX Convergence: 3 cm in 12min



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DA2 Performance Improvements

Time to First Fix



Positioning yield (RTK)
Positions with fixed RTK
position / positioning
occupied

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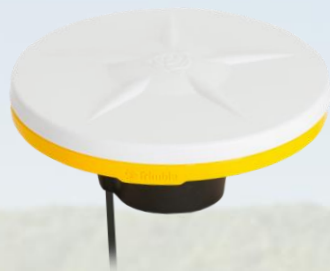
Trimble DA2 Corrections Hub Coverage (DA2)

Catalyst subscribers can use Trimble RTX (L-band and IP) with their DA2 using the Trimble Corrections Hub (TCH).



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What's In The Box?



DA2 GNSS Receiver
(with USB-A power cable)

5/8x11 Pole Cap

Battery pack mount

Documentation
(Warranty Card & Quick Start Guide)

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Power Solutions



Power DA2 by USB ...



... including directly from your tablet or smartphone



Run-time depends on your power source



ANKER PowerCore 5000 (Model A1109)
Available from Trimble

Rated capacity: 5000mAh / 18.5 Wh

Estimated DA2 run-time: 6+ hours



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Configurations

Ways to use the DA2 receiver in field:

2m Pole



Monopole



Backpack



Antenna Handle



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RTX - Catalyst Subscriptions

Updates to the Trimble Catalyst Positioning Subscription Offerings

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Subscription Options – Trimble RTX

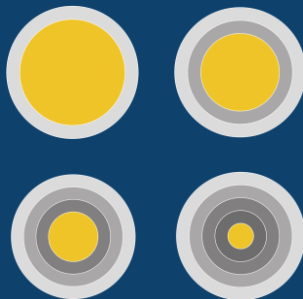
Catalyst On Demand

Shared pool, unlimited users, pay per hour Cat1 only



Catalyst Monthly

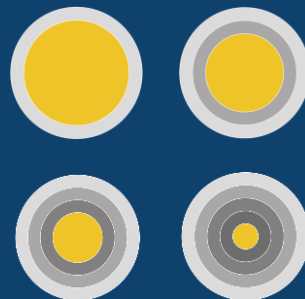
Pay per user, per month, unlimited use



Catalyst 60	60 cm
Catalyst 30	30 cm
Catalyst 10	10 cm
Catalyst 1	1 cm

Catalyst Annual

Pay per user, per year unlimited use



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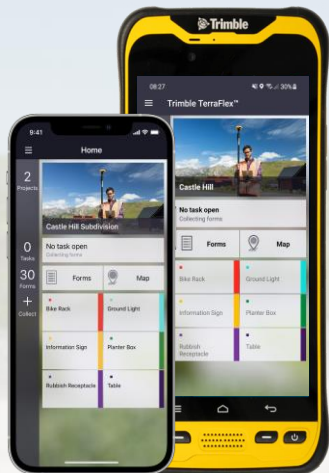


Software

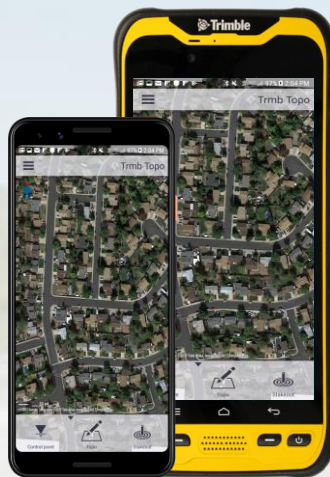
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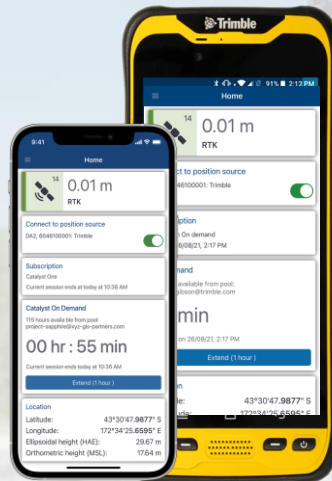
Apps & Workflows



TerraFlex - GIS
For iOS & Android



Penmap - Survey
For Android



Mobile Manager
For iOS & Android



Partner Apps
For iOS & Android ESRI products



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Pricing

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Detailed Pricing -Antenna Handle



Trimble DA2 Catalyst R 7 160

- GNSS Antenna, Power bank straps
- Power bank (5000mAh) R 600
- Hard carry case R 2 060

Trimble Catalyst Handle R 3 060

RTX Accuracy Subscription – per 1 Year Activation

- 60 cm R 8 020
- 30cm R 22 050
- 10cm R 36 690
- 1-2cm R 64 210
- 1-2 cm (10x 1-hour activations) R 2 210

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Questions | General Discussion

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Social Media

For the latest Product, Technology, Industry & Company News:



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- **OPTRON (Pty) Ltd**



Face Book

- **OPTRON**



Instagram

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Website

- **www.optron.com**



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Thank You

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