

Catalogue

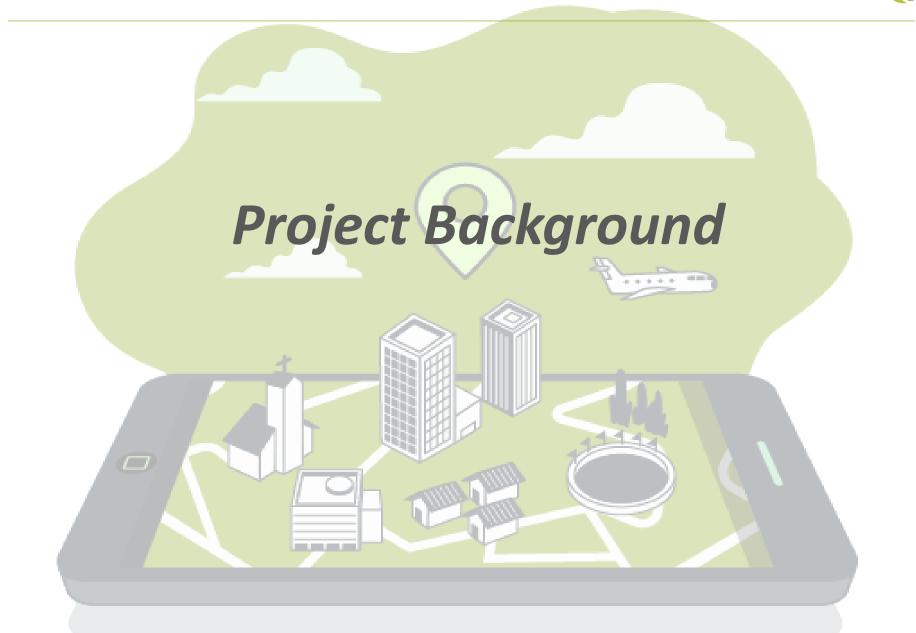
01. Project Background

02. Solutions

03. Advantages

04. Why Meitrack





Project Background



With the advancement of science and technology, especially the rise of intelligent technology, accurate positioning technology has become a key requirement in all walks of life. Although traditional positioning methods (such as GPS) have been widely used, their accuracy and stability in complex environments are still facing challenges.







Precision Agriculture

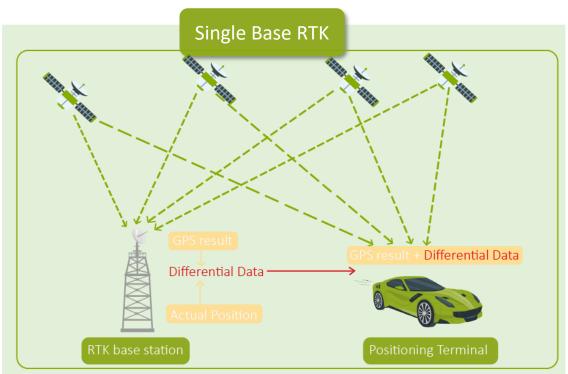


Mining

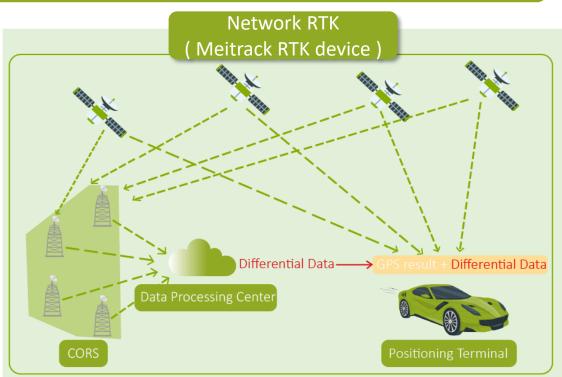
Project Background



Real-time kinematic positioning (RTK) technology came into being, and with its advantage in centimeter-level accuracy, it has gradually become one of the core technologies in the field of precise positioning. RTK technology has two main working modes, "Single Base RTK" and "Network RTK".



Single-base RTK technology, only one base station (reference station) is used to provide correction data. It calculates the error of the current position in real time through the GNSS receiver and sends these correction data to the positioning terminal.

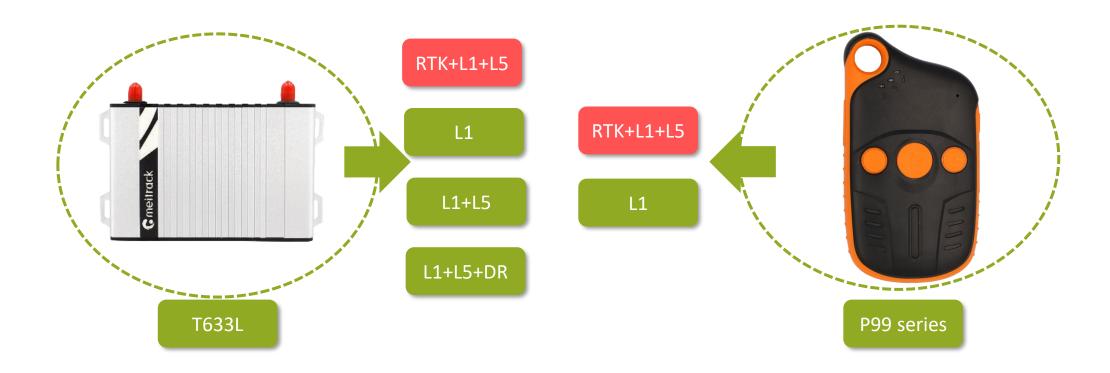


Network RTK provides correction data through a GNSS network composed of multiple base stations. CORS (Continuously Operating Reference Stations) transmits the data to the data processing center, which then processes the data and sends it to the positioning terminal.

Project Background



Meitrack P99 series (personal machine) and T633L (vehicle machine) are both compatible with RTK modules, which require modifications to the standard version of software and hardware. Customers need to provide information from the local RTK service center, and Meitrack will remotely assist in debugging.

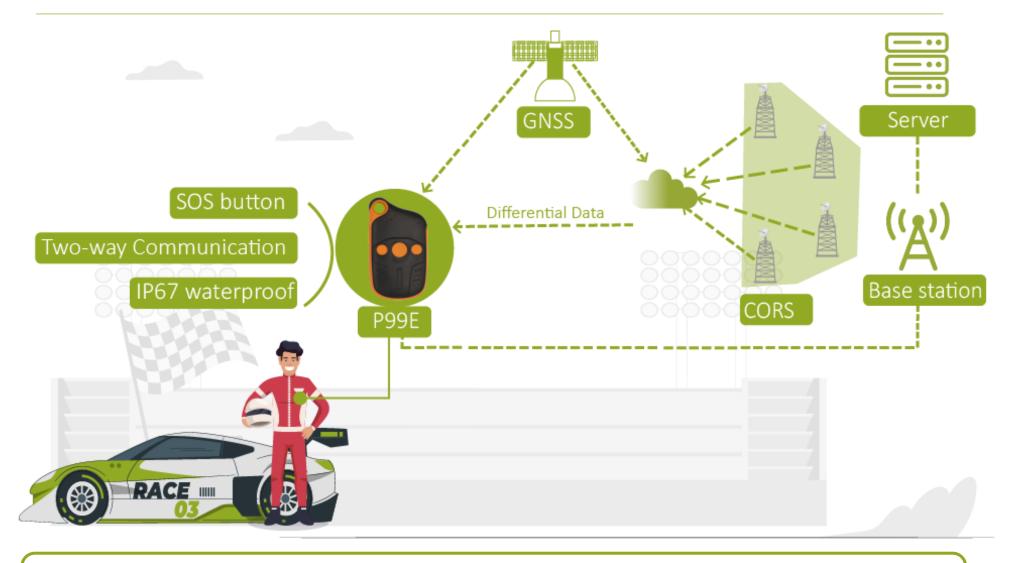






Solution -P99L

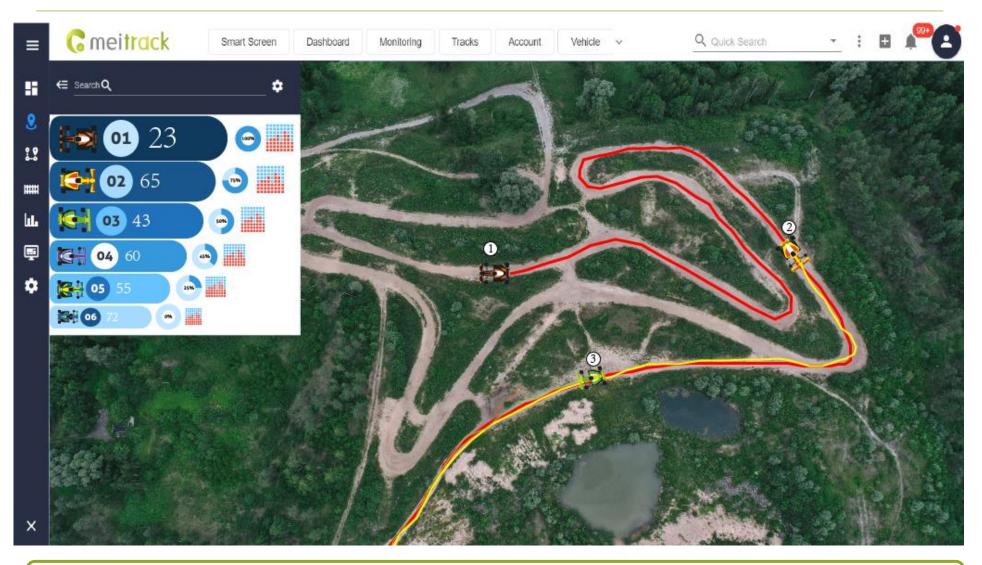




In a racing competition, each driver can be equipped with a P99E, which can not only achieve centimeter-level RTK real-time positioning and real-time display of the race situation, but also the driver can press the SOS button to contact the official personnel in an emergency.

Solution -P99L

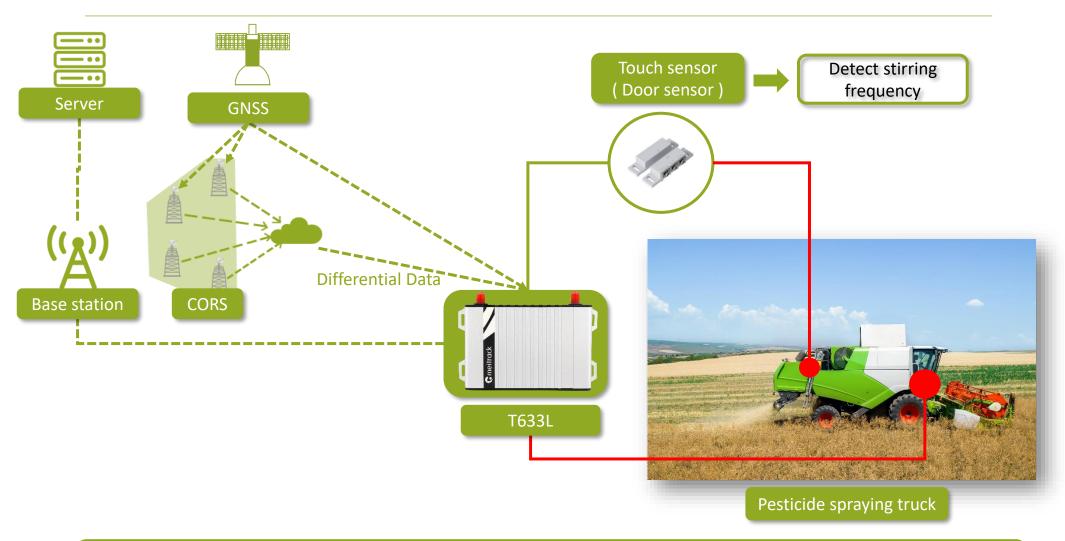




The positioning data of each racing car is uploaded to the platform and displayed on the map in real time, allowing for real-time recording and ranking of the event.

Solution -T633L

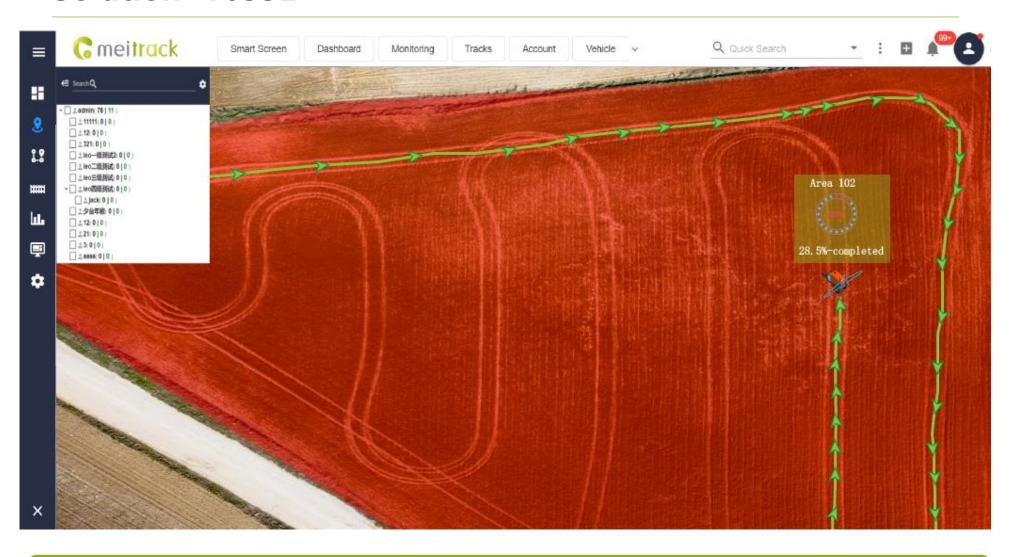




T633L on the pesticide spraying vehicle can accurately monitor the location through RTK technology. The Touch sensor can detect the pesticide stirring frequency of the spraying vehicle and upload it to the platform through the device.

Solution -T633L

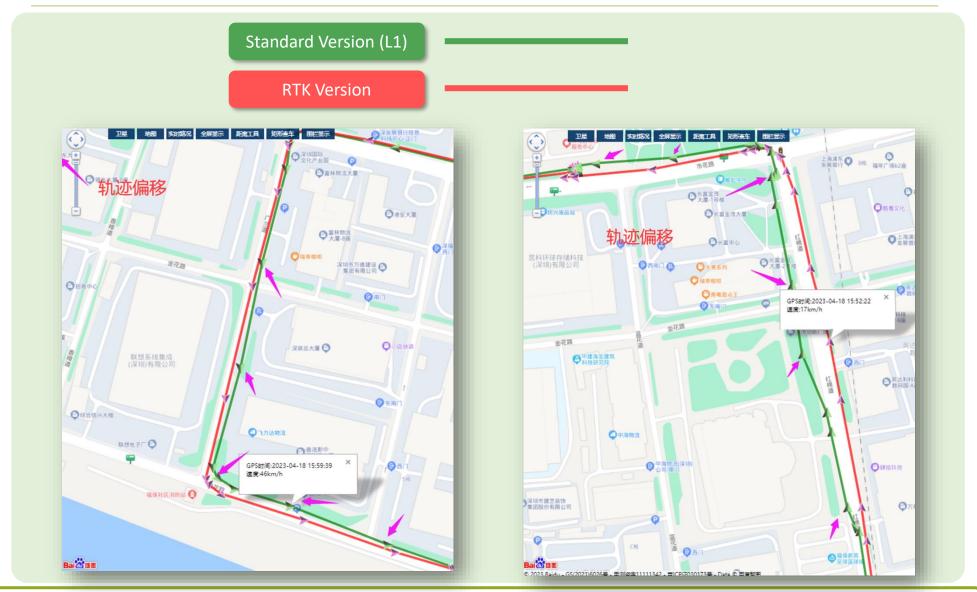




T633L accurately records the driving trajectory of each pesticide spraying vehicle and uploads it to the platform. Managers can monitor whether the driver is spraying according to the best route and whether the task is completed on the platform.

Solution - Test Comparison





The red track is the P99L-RTK version, and the green track is the ordinary P99L-L1 version. After testing, it can be compared that the positioning effect of the RTK version is significantly better than the standard version.

Solution - Other Scenarios

















RTK positioning can also be applied to other fields, such as logistics and transportation, water sports events, mining positioning, construction, etc.



Advantages



RTK module can achieve centimeter-level positioning RTK Multiple models The model P99 series and T633L can support RTK module P99 series/T633L supports two-way calls with authorized numbers Two-way talk SOS Alarm P99 series/T633L supports SOS button alarm P99 series supports IP67 waterproof and can be used in water events IP67 waterproof Multiple interfaces T633L supports RS232, RS485, CANBUS, 1-wire and multiple input/output P99 series supports fall detection and can be used for safety protection of Fall Detection athletes Impact alarm T633L can accurately detect vehicle impact events Support enter/exist GEO-fence alarm **GEO-fence**





Why Meitrack



Professional

Meitrack has been continuously developing in the GPS field for 20 years, the stability and functionality of the products have been tested by the market for a long time

Good Service

Meitrack's aim has always been to focus on the customer and to provide the highest quality service

Customizability

To provide customers with the functional customization to meet the needs of the project, it is not only a sense, but also a capability

Innovation consciousness

We are not afraid to push our limitations and are willing to innovate to adapt to the changing markets







www.meitrack.com

Meitrack Group

Tel: 0755-83462818 Fax: 0755-23832013

E-mail: info@meitrack.com

Website: http://www.meitrack.com

Address: international Internet Finance Pioneer Park, No 1, Taohua Rd, Futian Free Trade Zone,

Shenzhen, China. 518038