

AUTO-STEERING SYSTEM



# AG993

THE NEW-GENERATION PRECISION AG TECHNOLOGY



TAP & RTK



TAP Accuracy  
2.5 cm



0.1-25km/h



Terrain Compensation



Smart U-turn











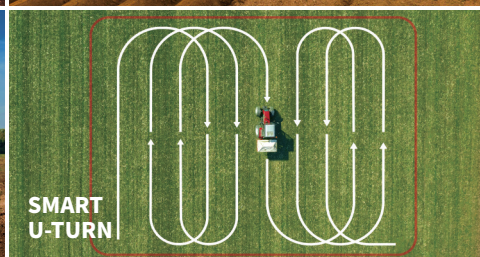
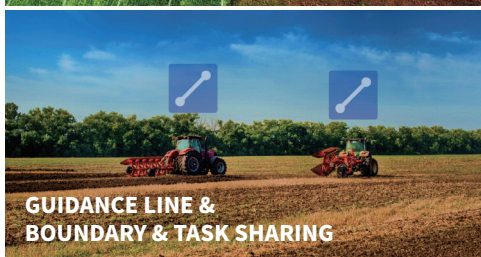
Fast installation

# MODULAR DESIGN



# FEATURES

-  **Supports multiple constellations and frequencies**  
GPS; GLONASS; BeiDou support BDS-3; Galileo; QZSS; SBAS supports WAAS, EGNOS, GAGAN, SDCM, MSAS; L-band
-  **Satellite-based PPP service (Tersus TAP)**
-  **10.1" touch screen control terminal**
-  **Guidance Line & Boundary & Task Sharing**
-  **Auto-steering error less than 2.5cm**
-  **Simple & Fast installation**
-  **Easy & Quick calibration procedures**
-  **Auto U-Turn within Boundary**



# AG993 TERSUS TAP (PPP) SERVICE

## TERSUS TAP

TAP is a satellite-based precise point positioning service developed by Tersus GNSS, which allows users to achieve centimeter-level high-precision positioning worldwide.



### High-performance global solution

Enjoy 15mm horizontal and 30mm vertical accuracy in just 3 minutes worldwide.

### Security and simplicity in operation

No base and network required, with one-way data transfer of corrections to your receiver for quick and secure access.

### High-availability & Redundancy

With redundant backups for all hardware and broadcast paths, ensure over 99.99% service availability.

### Seamless subscriptions

Remote one-click activation, with flexible subscription durations to suit your application needs



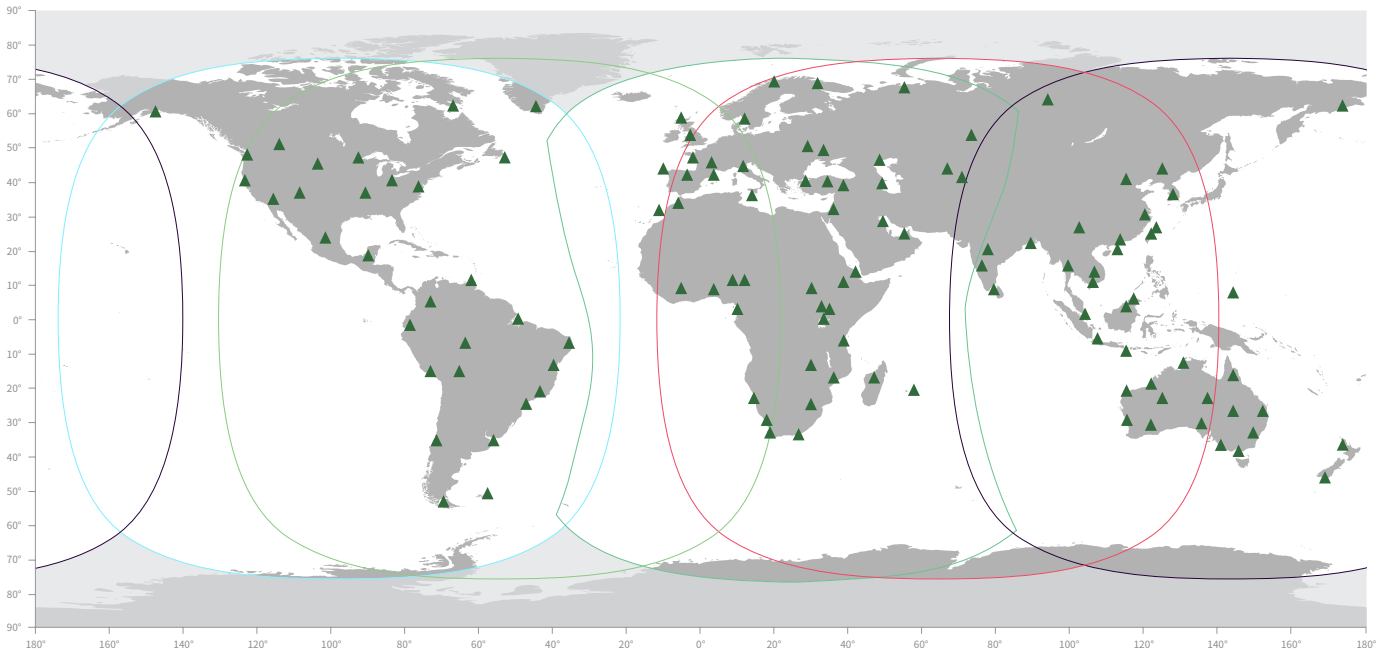
**Real-time via L-band from satellite**



**Global coverage**



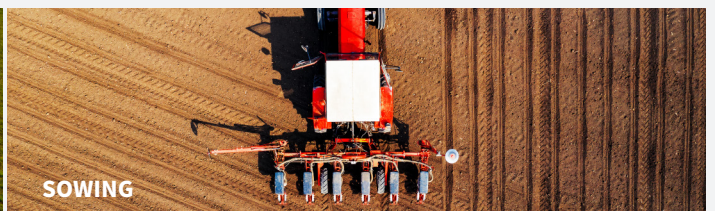
**Stable coordinate frame**



## APPLICATION SCENARIO



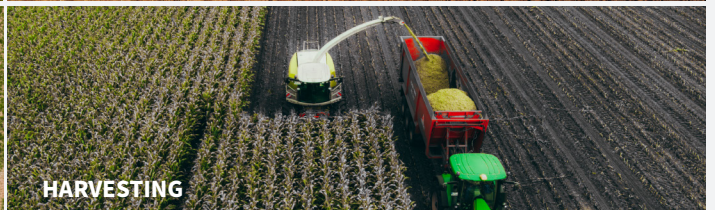
**HARROWING**



**SOWING**



**SPRAYING**



**HARVESTING**

# TECHNICAL SPECIFICATIONS

## AG993

### Display Terminal



#### System

Operating System: Android 11  
LCD: 10.1" Touch Screen

#### Electrical & Physical

Power Input: 9V~36V DC  
Dustproof & Waterproof: IP67  
Dimension: 258x174x27.5mm  
Operating Temperature: -20°C - +70°C  
Storage Temperature: -30°C - +80°C  
Weight: 800g

### Electric Steering Wheel



#### Motor Performance

Rated torque: 7 N·m (typical)  
Supply voltage: 9-28V DC

#### Physical

Size:  $\phi$ 400 / 350mm  
IP Rating: IP55  
Weight: <5kg (Motor only)

### Controller



#### Performance

Frequencies: GPS; GLONASS;  
BeiDou(supports BDS-3);  
Galileo; QZSS; SBAS; IRNSS; L-band  
Real Time Kinematic, RTK (RMS):  
Horizontal: 8mm+1ppm  
Vertical: 15mm+1ppm  
Timing Accuracy (RMS): 20ns  
Velocity Accuracy (RMS): 0.03m/s  
TAP positioning accuracy (RMS): <2.5cm  
TAP convergence time: 3 minutes  
TAP coverage: Global  
TAP signal stability: 99.99%  
Initialization reliability: >99.99%

#### Electrical & Physical

Operating Temperature: -40°C - +70°C  
Storage Temperature: -40°C - +85°C  
Dimension: 200x205x65mm  
Weight: <1.5kg  
Dustproof & Waterproof: IP67



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To learn more, please visit: [www.tersus-gnss.com](http://www.tersus-gnss.com)  
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