

AUTO-STEERING SYSTEM

AG993



THE NEW-GENERATION PRECISION AG TECHNOLOGY



TAP & RTK



TAP Accuracy



0.1-25km/h



Terrain Compensation



Smart U-turn



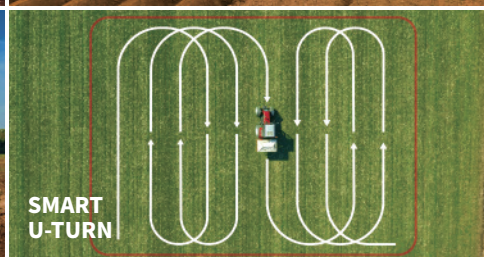
Fast installation

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



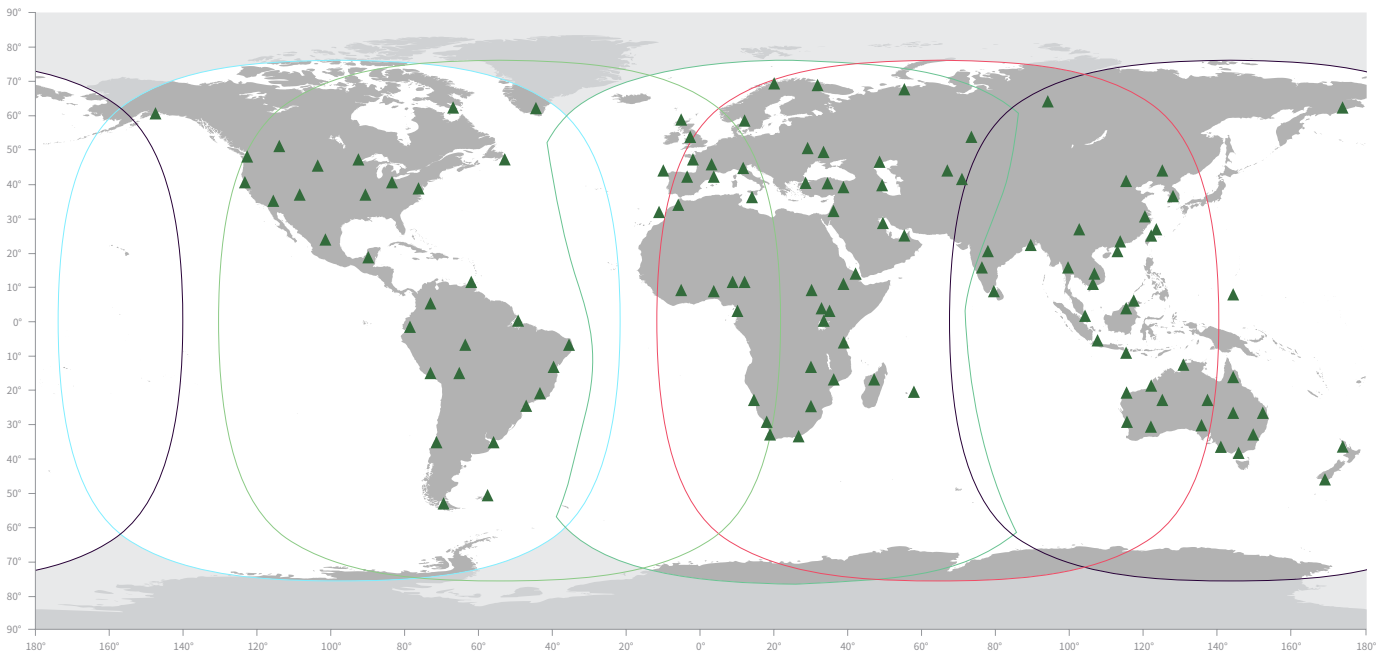
**Real-time via
L-band from
satellite**



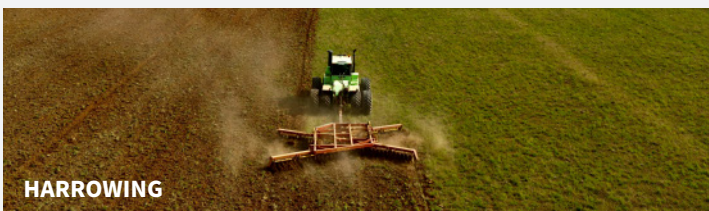
**Global
coverage**



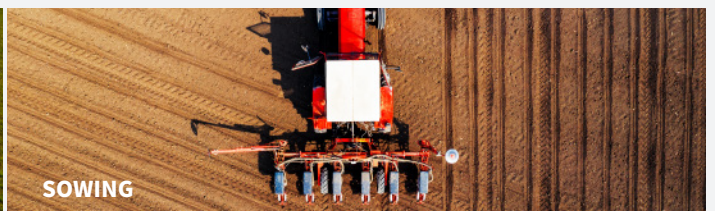
**Stable
coordinate frame**



APPLICATION SCENARIO



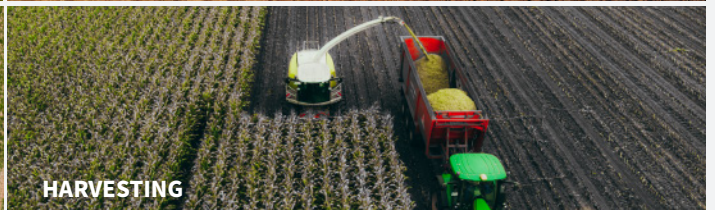
HARROWING



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: $\phi 400 / 350\text{mm}$
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: <2kg
Dustproof & Waterproof: IP67



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To learn more, please visit: www.tersus-gnss.com
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