

GNSS Receivers for Precision Agriculture

Designed and manufactured in Italy - by GPS pioneers

Since 1994, AvMap has been designing professional positioning and navigation technologies for **aeronautical, marine, and automotive applications**.

Today, our experience in satellite positioning brings accuracy, reliability, and innovation to **precision agriculture**.

- ✓ Over 30 years of experience;
- ✓ Italian design and manufacturing;
- ✓ Multi-sector expertise in aeronautical, marine, and automotive markets;
- ✓ Reliable support.

A COMPLETE RANGE

Turtle Series - Compact and Essential Receivers



TurtleSmart

Entry-level GNSS receiver

Ideal for guidance and basic precision agriculture tasks.

- 30 cm accuracy
- Multi-constellation support
- Compact, easy to mount



TurtlePro3

Improved performance for demanding applications

Greater stability, improved repeatability.

- Multi-band, 15 cm accuracy
- Terrain compensation
- Perfect balance between performance and cost

All-In-One Series - High Performance, IoT, and Telematics



All in One RTK

RTK receiver with integrated 4G module

Centimeter-level accuracy for the most demanding operations.

- RTK corrections with NTRIP client
- Onboard 4G connectivity and cloud services
- Motion sensors for Automated Guidance



All in One TStar

Subdecimeter accuracy anywhere

Ideal for areas with limited mobile coverage.

- Global TerraStar L-band corrections
- High accuracy without cellular network
- Reliable performance even in remote areas

Precision GNSS receivers

	Turtle ^{Smart}	Turtle ^{Pro3}	All in One ^{RTK}	All in One ^{TStar}
GPS, Glonass, Galileo	✓	✓	✓	✓
Beidou	✗	✓	✓	✓
Support band	L1	L1,L5	L1,L2,L5, E6	L1, L2, L5, L-Band
Frequency of updating - up to...	4 Hz	10 Hz	20 Hz	20 Hz
RTK	✗	✗	✓	✓
Terrastar correction service	✗	✗	✗	✓
Galileo HAS* correction service	✗	✗	✓	✗
Accuracy	+/- 30cm	+/- 15cm	+/- 2cm	+/- 2cm
Terrain compensation	✗	✓	✓	✓
Inertial platform for automatic steering	✗	✓	✓	✓
4G modem and SIM with global coverage	✗	✗	✓	✓
NTRIP client for RTK correction	✗	✗	✓	✓
1 year included with subscription and telematic services MyFarmnavigator.com	✗	✗	✓	✓
CAN support	✗	✗	✗	✓

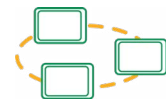
*Q2 2026



Robust construction for the harsh agricultural environment



Optimized for driving, mapping, irrigation and steering



Universal compatibility: serial communication, NMEA0183

IDEAL FOR:

- ✓ **Automatic Guidance and Steering**
Stays on track, reduces overlap, and optimizes implement performance.
- ✓ **Variable Rate**
Submeter and subdecimeter accuracy for spraying and fertilization.
- ✓ **High-Precision Tasks**
RTK centimeter accuracy for high-value crops, strip-tilling, and seeding.
- ✓ **Low-Connectivity Areas**
With T-Star and Galileo HAS technology, maintain high accuracy even where mobile network coverage is poor.

ADVANCED GNSS TECHNOLOGY

FARMNAVIGATOR GNSS receivers embody decades of AvMap experience in designing telematics and navigation solutions:

- Rapid signal acquisition and low-latency processing
- Multi-constellation for maximum stability
- Precise and consistent position repeatability
- Positioning technology derived from aircraft navigation systems
- IoT capabilities for instant cloud connection myfarmnavigator.com