

Auto Steering System  
for Agricultural Machines



# STX-AG400

## Auto Steering System

STX-AG400 is the **new Stonex Auto-Steering System** that integrates GNSS positioning with automatic control technology, to deliver **±2.5cm positioning accuracy**.

Thanks to **ISOBUS**, integrate your system with a wide range of **smart farm implements**.

Scalable farming solutions for every need. **Quick and non-invasive installation in under 30 minutes**.

Intuitive **Android control** to save time and boosts productivity. Master complex terrains with automated path steering.

**Automated U-Turns** for perfect paths and Automatic alignment for seamless lane transitions.



### HIGH ACCURACY

Reliable **±2.5 cm accuracy** on any terrain. Versatile for all operations.



### UNIVERSAL COMPATIBILITY & SCALABLE CONFIGURATION

Manual guidance (**STX-AG400 Lite**) or Auto-Steering option (**STX-AG400**). Compatible with all machinery.



### ISOBUS

Full **ISOBUS protocols** supported for multiple implements (UT, TC-SC, TC-GEO, TC-BAS & AUX).



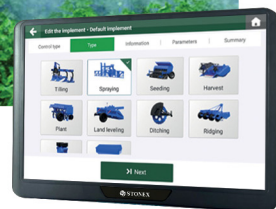
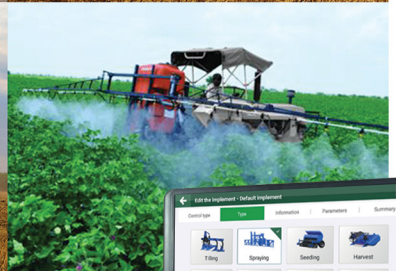
### SIMPLE INSTALLATION

**Zero hydraulic modifications.** System ready to work **in under 30 minutes**.



### AG400 APP

**Intuitive Android interface** boosts productivity. Master straight, curved, pivot or mixed routes on various terrain.





## STX-AG400 GNSS POSITIONING

Thanks to **GNSS multi-constellation receiver**, STX-AG400 guarantees **positioning accuracy of  $\pm 2.5$  cm in RTK configuration** and decimeter-level accuracy in **PPP** (Galileo & BeiDuo) or **SBAS mode**. Choose the best solution based on customer and environmental conditions, and be always precise on the field, even in areas with limited network connectivity.

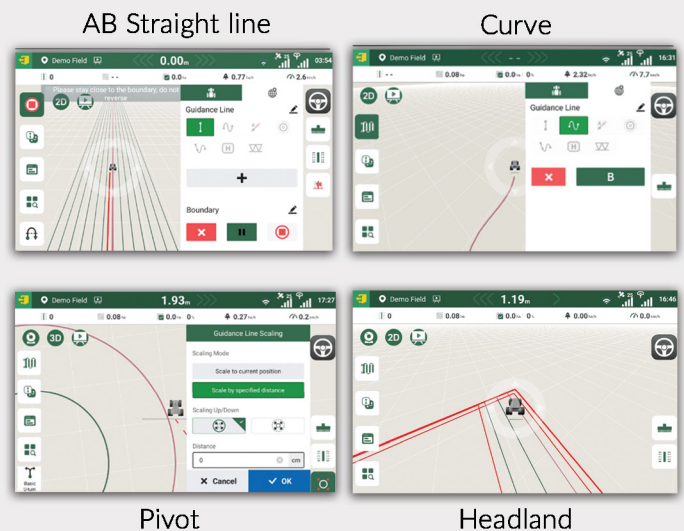
**Terrain compensation technology** provides high accuracy, also on slopes and irregular grounds.



## SOFTWARE MAIN FEATURES

STX-AG400 Auto-Steering software is designed for **Android platform** to be **simpler and intuitive**.

- Streamlined tractor & implement calibration and configuration for peak efficiency ( **$\pm 2.5$  cm accuracy**)
- Integrated field management & precise boundary control
- Smart **U-Turn** technology with specialized guidance modes
- Adaptive performance for **low and high-speed operations**



# TECHNICAL FEATURES

## AG400 - GNSS Receiver



### GNSS RECEIVER

Frequency band	GPS L1C/A, L2C, L2P(Y), L5 GLONASS G1, G2 BDS B1I, B2I, B3I, Galileo E1, E5a, E5b, QZSS L1C/A, L2C, L5, SBAS L1C/A
Channel	1408
GNSS Rate Update	20 Hz
Cold Start	< 30 sec
RTK Signal Initialization	5 sec
GNSS Board	UM982
IMU Accelerometer Accuracy	0.5 mg
IMU Gyroscope Accuracy	0.1°/s
Roll/Pitch	0.2°

### POSITIONING<sup>1</sup>

GNSS Accuracy (Horizontal)	Single Point Positioning (RMS): 1.5m DGPS (RMS): 0.4m RTK (RMS) <sup>2</sup> : 1cm+1ppm
GNSS Operational Accuracy on a Tractor (Horizontal)	RTK <sup>2</sup> : ± 2.5 cm

### COMMUNICATION

Radio	External
Wi-Fi	NO
BT	NO
GSM	NO
External interface	TNC dual antenna extension x1
I/O Connectors	Type C (for debug)
Navigation Output	NMEA0183

### POWER

Operating Voltage	9 V - 36 V
Operating Current < 300 mA	< 300 mA

### PHYSICAL SPECIFICATION

Size	177 x170 x63 mm
Weight	911g
Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C
IP Rating	IP66
Humidity	Operating Humidity: 5% ~ 95% RH, non-condensing.

## AG400 - Radio Antenna

Type	Whip Antenna, RX
Frequency Range	410 MHz - 470 MHz
Channel Spacing	12.5K and 25K
Voltage Standing Wave Ratio	≤2.0
Gain	1±0.5 dBi
Impedance	50 Ω
Polarization	Vertical
Size	ø82 mm×490 mm
Operating Temperature	-40°C to 70°C

Illustrations, descriptions and technical specifications are not binding and may change

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## AG400 - Steering Wheel



Diameter	380mm
Supply Voltage	12 V or 24 V
Maximum Steering Torque	20Nm
Weight	4.5 kg (with motor)
IP rating	IP65
Operating Temperature	-20° to 85° (with motor)
Storage Temperature	-30° to 90° (with motor)

## AG400 - Angle Sensor

Supply Voltage	5 V
Output Frequency	max. 200 Hz
Resolution	<0.1°
Operating Temperature	-20°C to 85°C
IP Rating	IP67

## AG400 - Tablet



### SYSTEM

Operative System	Android 9
Memory	4G RAM, 8G ROM

### DISPLAY

Screen Size	10.1-inch capacitive touch screen,
Screen Resolution	1280*800 pixels
Brightness	700 Nits
Touch Panel	Capacitive Touch Display

### POWER SUPPLY

Power Supply	9 V - 36 V
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### COMMUNICATION

Wi-Fi	Frequency band: 2.4 GHz
	Output power: 2.4 GHz 11n 14±2 dBm
Bluetooth	Frequency range: 2412 MHz - 2484 MHz
	5.0
GSM	4G (B2, B3, B5, B8)

### INTERFACE

External Interface	SIM card slot×1
	Type-C port×2

### PHYSICAL SPECIFICATIONS

Size	275×180×54 mm
Weight	1480g
Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C
IP Rating	IP65
Relative Humidity	0% - 95%, 40°C (non-condensing)

1. Accuracy and reliability are generally subject to satellite geometry (DOPs), multipath, atmospheric conditions, and obstructions.
2. Network RTK precision depends on the network's performance and is referenced to the closest physical station.

**STONEX®**

Viale dell'Industria 53 - 20037 Paderno Dugnano (MI) - Italy  
Phone +39 02 78619201  
www.stonex.it | info@stonex.it