

168mm



235mm

Display size: 8.0 inches

Resolution: 800 x 480 pixels

Features

GPS L1/L2, BeiDou B1/B2, GLONASS L1/L2

Advanced QUANTUM™ Technology

DP-Filter Smooth Function¹

Support Maximum 20 Hz RTD/RTK

Integrated UHF/4G/WIFI

Overvoltage Protection

32 GB Internal Memory and External USB Storage

P300 GNSS Tablet

RELIABLE GNSS INSIDE

SinoGNSS P300 is integrated with a high-performance GNSS OEM board that can track GPS L1, L2, BeiDou B1, B2, and GLONASS L1, L2. Using the advanced QUANTUM™ technology in combination with upgraded SinoGNSS ASIC chip and advanced Microprocessor unit, the P300 is capable of providing enhanced heading and positioning performance for everyday field use.

SINOGNSS SMOOTHING FUNCTIONALITY

SinoGNSS DP-Filter¹ technology improves the absolute positioning accuracy, enabling P300 to reach 20cm pass-to-pass accuracy in smooth mode, which is ideal for manual guidance and automated steering applications. With built-in UHF and 4G cellular modem, the P300 is able to achieve centimeter-level RTK performance for your farming operations.

INTUITIVE INTERFACE AND EASE OF USE

Built on Windows or Linux operating system, it's flexible to integrate SinoGNSS P300 into your high-precision agricultural solutions. With its high-definition color touchscreen and intuitive interface, the P300 allows you to quickly access guidance lines and easily operate for both beginners and advanced users. Moreover, its clear guidance LEDs allow you to notice the vehicle deviation in real time, achieving effective guidance all the time.

DESIGNED FOR FLEXIBILITIES

The P300 is designed with two 12-pin DEUTSCH connectors supporting two RS-232 serial ports, two RJ45, and two CAN ports. It also provides multiple interfaces for antenna connection and PPS. You will also benefit from its 32GB internal memory and USB data transfer for in-office analysis. The wide input voltage range makes it compatible with all kinds of farming vehicles.

SinoGNSS[®]
By ComNav Technology Ltd.

DISPLAY SPECIFICATIONS

Design	
Dimensions	235 mm × 168 mm × 52 mm
Weight	1.9 kg
LEDs	19 bright guidance LEDs, 1 Power LED, 2 Satellites tracking LEDs and 1 Data LED
Buttons	1 Power button, 2 Backlight adjustment buttons and 1 Function button

Display	
Physical size	8.0 inches
Resolution	800 x 480 pixels
Type	TFT LCD
Features	Sunlight-readable display

Hardware	
Processor	Inter(R) Atom(TM) CPU E38XX @1.33GHz
System memory	2GB RAM
Data Storage	32 GB SSD and external USB storage
Built-in dual-channel speaker and microphone	

Communications	
1 power port (6-pin DEUTSCH)	
2 USB ports	
2 RS232, 2 RJ45, 2 CAN, 1 Event (2*12-pin DEUTSCH)	
1 PPS output port (SMA)	
2 GNSS antenna connectors (TNC)	
1 UHF antenna connector (TNC)	
4G/WIFI ²	

Environmental	
Operating temperature	-30 °C to + 65 °C
Storage temperature	-40 °C to + 85 °C
Humidity	100% no condensation
Waterproof and dustproof	IP65
Shock and Vibration	Designed to survive a 1m drop onto concrete

Electrical	
Operation System	Windows 10/Linux
Input voltage	6-36V DC
Power consumption	<20 W

GNSS SPECIFICATIONS

Signal Tracking	
Channels	404
GPS	L1 C/A, L2C, L2P
BeiDou	B1, B2
GLONASS	L1C/A, L1P, L2C/A, L2P
SBAS	Reserved

Performance Specification	
Cold start	<50 s
Warm start	<45 s
Hot start	<15 s
RTK Initialization time typically	<10 s
Signal reacquisition	<1.5 s
Initialization reliability typically	>99.9%
Position data output rate	1Hz, 2 Hz, 5 Hz, 10 Hz, 20 Hz

Positioning Specifications	
Single Baseline	8 mm + 1 ppm Horizontal
RTK	15 mm + 1 ppm Vertical
DGPS	<0.4 m RMS
DP-Filter ¹ technology Pass to Pass	20 cm
Azimuth	(0.2/R) ^{0 3}
Roll or Pitch	(0.4/R) ⁰

Communications	
Correction data I/O	RTCM 2.X, 3.X, CMR (GPS only), CMR+(GPS only)
Position data output	ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST; PTNL, PJK; PTNL, AVR; PTNL, GGK NMEA-2000

1. Please refer to white paper for more information on our official website.
2. 4G/WIFI is configurable based on your requirements.
3. R (meter) is the length of two GNSS Antennas.

Specifications subject to change without notice.