

AGRICULTURA 4.0



ISO
BUS

ISOBUS



**GIRO
EN CABECERA**



**PRECISIÓN
RTK 2.5CM**



**RADIO
Y CORS**



**LINEAS
RECTAS, ADAPTABLES,
PIVOT, ESCUADRA**



**VELOCIDAD
DESDE 0.1KM/H
HASTA 18KM/H**



**COMPENSACIÓN
A TERRENO
3 EJES**



EAS301 Pro System

Accuracy	Dry land: 2.5 cm (≤ 9 km/h); Paddy land: 5 cm (≤ 9 km/h)
Line acquisition distance	< 7 m
Vehicle velocity range	0.1 - 18 km/h
Correction data source	GSM, Radio
NMEA output	GGA, GSV, VTG, GSA, ZDA, RMC, GST
Data formats	RTCM3.X, CMR, ROX
Optional accessory	Angle sensor, external IMU, rear camera



Specification

ST6E Display	
System	
Processor	AllWINNER T507 8-core @1.5GHz
OS	Android 10.0
RAM	2 GB LPDDR4X
ROM	16 GB eMMC
Screen	
Size	10.1" LCD
Resolution	1280 x 800
Brightness	750 nits
Touch panel	Capacitive touch screen, multi-point anti-glare
Communication	
Bluetooth	BT4.0 @BLE
Wi-Fi	2.4G+5G, IEEE802.11 g/b/n/ac
GSM	- CAT4 LTE - LTE-FDD: B1/B3/B5/B7/B8/B20/B28 - LTE-TDD: B38/B40/B41 - WCDMA: B1/B5/B8 - GSM: B3/B8
Port	- Serial port (6-pin) x 1 - Serial port (12-pin) x 2 - USB type-A (USB host) x 1 - USB (Micro-USB, USB device) x 1 - SIM card (SDHC) x 1 - Micro SD card (256G max) x 1 - GSM (Fakra D) x 1
Power Supply	
Input voltage	6 - 36 V dc
Physical Specification	
Dimension	269 mm × 190 mm × 41 mm
Weight	1300 g
Button	Power button x 1
Battery	None
Humidity	0-95% RH, non-condensing
Operating temperature	-20°C - +70°C
Storage temperature	-40°C - +85°C
Water/dust proof	IP65
Vibration	ISO 16750/MIL-STD-810G

MC5 ECU	
GNSS Performance	
Channels	432
Satellites tracking	- GPS: L1, L2 - BDS: B1I, B2I - GLONASS: L1, L2 - GALILEO: E1, E5b - QZSS: L1, L2
Update rate	20Hz
Horizontal positioning accuracy	- Single: < 1.5 m (RMS) - DGNSS: < 0.4 m (RMS) - RTK: 8 mm+1 ppm (RMS)
Heading accuracy	< 0.2° rms with 1.0 m baseline
Re-acquisition	< 1 second
Communication	
Bluetooth	4.2
Wi-Fi	IEEE 802.11 b/g/n
GSM	Global GSM/WCDMA/LTE
Port	1 x serial port, 18-pin 1 x SIM card 1 x GNSS heading, TNC 1 x UHF, TNC
Internal Radio	
Frequency range	410 - 470 MHz & Hopping 902.4 - 928 MHz
Channel spacing	12.5 KHz / 25 KHz
Protocol	HZSZ, TrimTalk 450S, PCC-GMSK, South
Environment	
Operating temperature	-40°C - +70°C
Storage temperature	-40°C - +85°C
Humidity	95%
Shock	EP 455 Section 5.14.1
Vibration	EP 455 Section 5.15.1 (Random)
Water/dust proof	IP67
Power	
Input voltage	9 - 28 V dc (ISO 16750 4.2 B-H)
Physical Specification	
Dimension	162.2 mm × 162.8 mm × 70.2 mm
Material	Magnesium alloy
Weight	1284±20 g

Specification

EW1 Electric Steering Wheel

Motor

Working voltage	9 – 16 V dc
Nominal voltage	12 V dc
Output torque	9 V dc : 6.5N.m; 12 V dc : 8.5N.m
Maximum output torque	13 N.m
Maximum power	< 200 W
Maximum rotation speed	100 RPM
Load steering error	< ±5°
Response delay	Full range: 10 Hz; Straight walking: 20 Hz

Working Environment

Operating temperature	-20°C - +70°C (-68°F - +158°F)
Storage temperature	-40°C - +85°C (-104°F - +185°F)
Mechanical shock	EP455 5.14.1
Vibration characteristics	EP455 5.15.1& 5.15.2

Communication

Interface	ALTW/IDC-06PMMS-LC7001
Communication protocol	SAE J1939/ISO11783 CAN BUS

EMC / Safety / Environmental Protection

Radiated interference	■ Broadband: IAW ISO14982-2009 / 6.4 ■ Narrowband: IAW ISO14982-2009 / 6.5
Radiation immunity	IAW ISO14982-2009/6.6
Electrostatic discharge (ESD)	IAW ISO14982-2009/6.7
Environmental protection standard	2011/65/EU RoHS 2.0

Physical Specification

Dimensions	Φ180 mm × 80 mm
Weight	4.6 kg

Rear Camera (Optional)

Performance

Water/dust proof	IP67
Input voltage	12 V dc
Port	Female, 4-pin aviation
LED	8 LED light
Resolution	720P, 1024 x 600

UA35 GNSS Antenna

Antenna Performance

Frequency	■ GPS: L1, L2, L5 ■ BDS: B1, B2, B3 ■ GLONASS: G1, G2, G3 ■ GALILEO: E1, E5 ■ QZSS
Polarization	Right-handed circular
Axis ratio	≤2dB @Axial
Antenna gain	■ GPS L1: > 6 dBi ■ GPS L2: > 5 dBi
Phase center offset	±2 mm

Physical Specification

Dimensions	Φ146 mm x 46 mm
Weight	500 g
Antenna interface	TNC-F
Radome material	ASA Plastic
Base material	Aluminum alloy
Mount	5/8-11UNC-2B

iMM1 Angle Sensor & iMM1 External IMU (Optional)

Performance

Supply voltage	5.5 – 36 V
Supply current	30 mA/12 V
Power consumption	≤ 0.7 W
Water/dust proof	IP67
Measurement range	±90°
Measurement axis	X-Y
Resolution	0.002°
Accuracy	0.1°
Update rate	50 Hz
Initialization time	≤ 30 seconds

Working Environment

Working temperature	-40°C - +70°C
Storage temperature	-40°C - +85°C
Shock	20000 g, 0.5 ms, 3 times/axis
Interface	CAN

Physical Specification

Material	Aluminum alloy
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