

Tersus GNSS AG993

GC30- Guidance Controller

Technical Specifications

Performance

Frequencies:	GPS L1C/A, L2C, L2P, L5C GLONASS L1C/A, L2C/A BDS B1, B2, B3, supports BDS-3 Galileo E1, E5a, E5b QZSS L1C/A, L2C, L5 SBAS supports WAAS, EGNOS, GAGAN,SDCM, MSAS L-band
Single Point Positioning Accuracy (RMS):	
• Horizontal:	1.5m
• Vertical:	3.0m
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):	< 2.5 cm
TAP convergence time:	3 minutes
TAP coverage:	Global
TAP signal stability:	99.99%
Initialization reliability:	> 99.99%
Correction:	RTCM 2.x/3.x, CMR/CMR+
Data Output:	NMEA-0183, Tersus Binary
Max. Update Rate:	20Hz

Communication

Serial ports:	RS-232 x 2
Wi-Fi:	802.11b/g/n/ac
Bluetooth:	4.1
Cellular Bands:	FDD LTE 1,2,3,4,5,7,8,12,13,18,19,20,25,26,28 TDD LTE 38,39,40,41
Inertial Measurement Unit(IMU):	Support
LEDs:	Power, RTK Correction, Satellite

Electrical & Physical

Input voltage:	12V DC
Power consumption:	3.6W (typical)
Dimension:	200x205x65mm
Weight:	<2kg

Environmental

Dustproof & Waterproof:	IP-67
Humidity:	95% not condensing
Operating Temperature:	-40 °C ~ +70 °C
Storage Temperature:	-40 °C ~ +85 °C



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TC120- Tablet

Technical Specifications

System

Operating System:	Android 11
CPU:	8-Core 2.0GHz
Memory:	3GB RAM + 32GB ROM
External Flash:	T-Flash , up to 256GB
LCD:	10.1" Capacitive Touch Screen
Resolution:	1280x800 pixels

Communication

Wi-Fi:	2.4GHz/5GHz IEEE 802.11 a/b/g/n
Bluetooth:	BT5.0(BLE)
Cellular Network:	FDD-LTE B1/B3/B5/B7/B8 TDD-LTE B38/B39/B40/B41
USB:	USB 2.0 (host & debug) x1
Serial Port:	RS232 x2, RS485 x1
CAN Port:	CAN x 2
Ethernet:	RJ45 (100M Ethernet) x1

Electrical

Power Input:	9V~36V DC
Power failure detection:	supported
Power output:	12V DC x1

Physical

Dustproof & Waterproof:	IP-67
Dimension:	258mmx174mmx27.5mm
Weight:	800g
Operating Temperature:	-20 °C ~ +70 °C
Storage Temperature:	-30 °C ~ +80 °C



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TES30- Motor Wheel

Technical Specifications

Motor Performance

Rated torque:	7 N·m (typical)
Supply voltage:	9V~28V DC
Rated current:	10A
Stall current:	17A
Rated voltage:	12V

Environmental

Dustproof & Waterproof:	IP-55
Operating Temperature:	-25 °C ~ +55 °C (Motor)
Storage Temperature:	-35 °C ~ +65 °C (Motor)

Physical

Dimension:	φ 173x70mm(Motor)
	φ 400x32mm (Steering Wheel)
Weight:	<5kg (Motor only)
	5.25kg (Motor and Wheel)
Material:	Aluminum alloy



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