



SW MAPS GNSS SURVEYOR

T1



HIGH ACCURACY GNSS

1408 Channel Multi-band,
Multi-constellation RTK/PPP GNSS
receiver



TILT CORRECTION

Built-in IMU to support tilted
measurement for fast and
accurate survey



SATELLITE BASED PPP

Satellite based PPP using
Galileo HAS and BeiDou B2b for
offline high accuracy mapping



CONNECTIVITY

Wi-Fi and Bluetooth 5.0
Compatible with Android and iOS.
SD Card for data recording



APP SUPPORT

Fully Integrated with the SW Maps
app for RTK/PPK Survey



POWER OPTIONS

Battery lasts up to 20 hours
Charges with any USB-C charger



T1 SPECIFICATIONS

Receiver Module	Unicore UM981		
Signals Tracked	GPS	L1C/A, L1C, L2C, L2P(Y), L5	
	QZSS	L1C/A, L1C, L2C, L5	
	GLONASS	G1, G2, G3	
	Galileo	E1, E5a, E5b, E6	
	BeiDou	B1I, B2I, B3I, B1C, B2a, B2b	
	SBAS	L1C/A	
	NavIC	L5	
PPP	BeiDou B2b PPP, Galileo E6-HAS		
IMU	Tilt Correction up to 30° inclination, 3cm horizontal accuracy		
Position Accuracy (CEP)	Mode	Horizontal	Vertical
	Standalone	1.5m	2.5m
	SBAS	0.6m	1m
	PPP (B2b/E6-HAS)	5cm	10cm
	RTK	8mm + 1ppm	15mm+1ppm
	Static	3mm + 0.5 ppm	5mm + 0.5 ppm
Number of Channels	1408		
Update Rate	Up to 20Hz		
Receiver	Dimensions	ø138x90mm	
	Weight	625	
	Mounting	Standard 5/8" screw	
Internal Radio	Frequency	2.4GHz	
	Range	Up To 300m	
Connectivity	Wi-Fi	2.4GHz 802.11 b/g/n	
	Bluetooth	Bluetooth 4.0	
Ports	USB	USB-C port	
	Serial	4-pin JST-XH UART serial port	
Battery	Internal Battery	3.7V Li-Ion, 3 cells, 9000mAh	
	Running Time	Up To 20 Hours (Static), 16 Hours (RTK)	
	Charging	USB, 1A charge current	
Data Output	Rover	NMEA 4.10, Unicore	
	Base	RTCM 3.3	
Data Recording	Format	NMEA 4.10, Unicore	
	Storage	Micro-SD card slot	
RTK Correction Input	RTCM 3		
Included Accessories	SW Maps GNSS Surveyor Bag		
	Micro-SD Card		
	USB-C Battery Charger		
Mobile App	Android	GNSS Setup App for Base/Rover configuration	
		SW Maps for surveying	
	iOS	SW Maps for surveying	

Designed and Manufactured in Nepal by



+977-01-4566627,
+977-01-4566629



254, Ekta Marg, New Baneswor,
KMC-31, Kathmandu, Nepal



www.aviyaantech.com