

# T38

Android high accuracy data collector





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## Features

The T38 is a compact, rugged and affordable high accuracy data collector. It has built-in full frequency helix antenna and 4.5" TFT high-resolution display screen, equipped with Ublox F9P GNSS module. With Android 11.0 operating system, it supports LTE 4G all network communication, Bluetooth, Wi-Fi and other communication links. The T38P supports Google play. HyperGIS can be pre-installed as option. The T38 is designed for Power line System, Agriculture, Geology, Forestry, Field Service, GIS, Survey or other extreme environment.

Model	T38/T38-E	T38M/T38M-E	T38P/T38P-E	T38S/T38S-E
GNSS Module	MTK	ublox M8N	ublox ZED-F9P	Skytraq PX1172R
Stand alone	5m	2.5m	1.5m	1.5m
RTD/SBAS	-	2.0m	1.0m	-
RTK	-	1.5m	2cm	2cm

Item	T38	T38-E
<b>System</b>		
CPU	Quad Core ARM Cortex-A53 1.3GHz	MTK MT8768 *Cortex- 4*A53 2.0GHz/4*A53 1.5GHz
Operating System	Android 7.0	Android 11
Memory	2G RAM/16G Flash	4G RAM 64G Flash
<b>Display</b>		
LCD	4.5" TFT LCD,960(H) x 540(W),400 cd/m <sup>2</sup>	
Touch Screen	5 points capacitive touch (PCT)	
<b>Peripherals and Devices</b>		
Camera	Front: 2MFF/Rear:8M(AF) with Flashlight	Front: 5M/Rear: 8M AF with Flashlight
Sensor	M-Sensor/E-Compass, G-sensor, Gyroscope, Light sensor,Barometer, Proximity sensor	
Others	1 x built-in microphone, 1 x built-in speaker (1.5W) , 1x 3.5 stereo headphone, 1 x vibrator	
Keys	Volume, Function, Power, Function	
<b>Wireless</b>		
WLAN	IEEE 802.11 a/b/g/n	IEEE 802.11 a/b/g/n Dual mode: 2.4G and 5G
Bluetooth	BT 4.1 (BLE, HS compliant)	
WWAN	2G GSM/GPRS/EDGE (Band 850/900/1800/1900) 3G WCDMA (Band 1,2,5,8) 3G CDMA2000 (BC0) 4G FDD+TDD(Band 1,3,5,7,8,20,38,39,40,41) 4G DRX(Band 1,3,5,7,8,20,38,39,40,41)	GSM/EDGE/GPRS (850/1800/900/1900MHz) TDD-LTE (B38/B39/B40/B41) FDD-LTE (B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B28) UMTS/HSDPA/HSPA/HSPA+ (900/2100 MHz)
NFC	Support, optional	
<b>I/O Interface</b>		
USB Port	Micro USB 2.0	Type C USB 2.0
SD Slot	1 x microSD card slot (max 32G)	
SIM card	1 x micro-SIM(3FF) socket , 1 x micro-SIM(3FF) socket	
<b>Battery</b>		
Type	Lithium-ion rechargeable battery and field replaceable.	
Capacity	Typical 3.7V, 4000mAh	
<b>Adapter</b>		
Adapter Input	AC 100~240V 50~60 Hz	
Adapter Output	5V/2A	
<b>Mechanical</b>		
Protection	IP65 1.2m Drop	
Dimensions(mm)	147x71x22.3mm without antenna	
Weight	Less than 350g with battery	
<b>Environmental</b>		
Operating Temperature	-10°C ~ 65°C (14°F ~ 131°F )	
Storage Temperature	-20°C ~ 60°C (-4°F ~ 149°F)	
Operating Humidity	5% ~ 95% RH	