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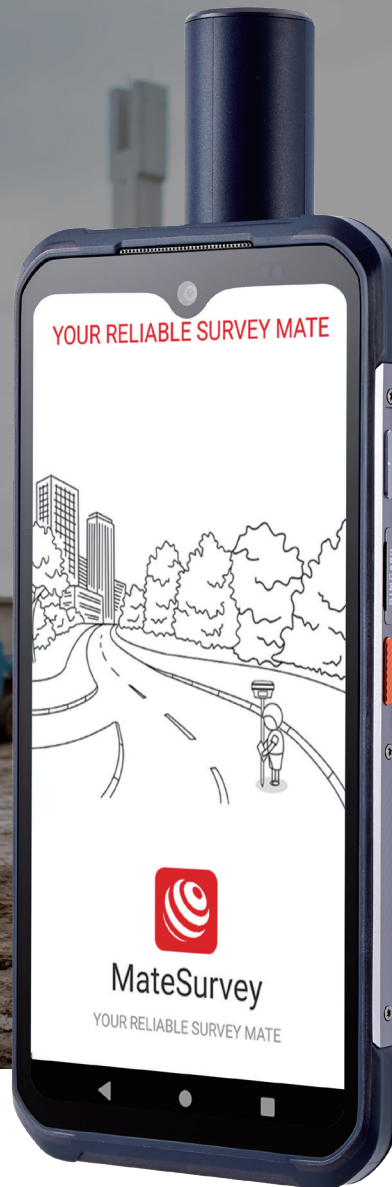
GEOMATE MATECOLLECTOR

RUGGED RTK SMARTPHONE WITH HIGH ACCURACY

The MateCollector rugged RTK smartphone is a reliable data collection tool, designed for industries requiring centimeter to decimeter-level positioning accuracy. Its portability, durability, and versatility make it ideal for precise GIS data collection, urban construction, and pipeline inspections.

Featuring a 6.3-inch sunlight-readable display, the MateCollector is perfect for field professionals needing to locate assets while capturing photos or videos. With an industrial IP67 design, it withstands daily use in harsh environments.

Powered by the smart Android 12 O.S., the MateCollector allows seamless integration with third-party Android mapping applications, greatly reducing software development efforts.

TECHNICAL SPECIFICATIONS

System

Operating system	Android 12.0 GMS certified
CPU	Advanced octa-core CPU 2.0 GHz
RAM	4 G
ROM	64 GB
Extension	Micro SD Card, up to 256 GB

GNSS Accuracies[1]

Channel	1500
Constellation	BDS: B1I, B2I, B3I, B1C, B2a, B2b GPS: L1C/A, L1C, L2P (Y), L2C, L5 GLONASS: L1, L2, L3 Galileo: E1, E5a, E5b, E5AltBOC, E6* QZSS: L1, L1C/A, L2, L5, L6* IRNSS: L5 SBAS*: L1, L5
RTK	Horizontal: 1 cm ± 1 ppm Vertical: 1.5 cm ± 1 ppm
SBAS	Horizontal: 0.75 m Vertical: 1.2 m
Standalone	1.5m, 3D RMS
Post Processing	Horizontal: 0.5 cm +1ppm Vertical: 1.5 cm
PPP (B2b & HAS)	20cm Horizontal

Display

Size	6.3" touch screen
Resolution	2340 x 1080
Brightness	550 cd/m^2 glare resistant, excellent sunlight readable screen
Touch Screen	Capacitive multi-touch, 5 points
Screen technology	IPS display panel Corning ® Gorilla ® Glass 3

Cameras

Front	8 MP
Rear	16 MP
Flash light	Integrated

Physical

Dust and Water Proof	IP67 (according to IEC 60529) for water and dust resistance, protected against temporary immersion at a depth of up to 1m.
Shock	1.5 m fall onto concrete
Humidity	5% - 95% RH (without condensation)
Size(L x W x H)	212.4 mm x 81.5 mm x 32.8 mm (8.4 in x 3.2 in x 1.3 in)
Weight	400 g (14.1 oz)
Environment	Operating: -20°C to + 60°C (-4°F to +140°F) Storage: -40°C to + 70°C (-40° F to +158° F)

Communication

SIM Card Type	Nano-SIM card
Wi-Fi	Wi-Fi IEEE 802.11a/b/g/n/ac
Bluetooth®	Bluetooth 5.1
USB	Type C, OTG
Network 4G modem	GSM: 850/900/1800/1900 WCDMA: B1/B2/B4/B5/B8/B19 CDMA EVDO: BC0 TD-SCDMA: B34/B39 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B17/B18/B19/B20/B26/B28 LTE-TDD: B34/B38/B34/B39/B40/B41

Battery

Li-ion battery capacity	Built-in non-removable battery 6,000 mAh
Voltage	3.8V
Battery life	8h[2]
Charging Time	4.0 h, fast charging: QC 3.0

Internal sensors

NFC, G-Sensor, Light Sensor, E-Compass, Gyroscope

Accessories

Screen protector, packaging box, Type-C USB cable, charger

* All specifications are subject to change without notice. All optional parameters can't be changed after delivery. Android, Google Play and other marks are trademarks of Google LLC. Bluetooth® is the tradmark owned by Bluetooth SIG, Inc.
(1) Autonomous and RTK accuracy are based on full GNSS constellations (GPS, Glonass, Galileo and BDS) availability, under clear unobstructed environment, multipath-free, standard satellite geometry andatmospheric conditions. Performances assume follow up of recommended general GNSS practices. Compliant, but subject to availability of BDS ICD, Galileo and QZSS commercial service definition. Galileo E6 and QZSS L6 will be provided through future firmware upgrade. (2)25°C continous data collection, 100% brightness.

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