

# GEOMATE

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## MateTablet Pro





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The MateTablet Pro RTK Android tablet is a versatile solution for mobile field work. With high accuracy and rugged design, it's perfect for GIS data collection, mapping, construction, and more. The 8.1" sunlight-readable display ensures clear visibility in any lighting condition. It's built to withstand tough environments, making it the top choice for demanding field crews. The MateTablet Pro brings precise GNSS positioning technology to organizations of any size, enabling accurate data collection in the field.

## TECHNICAL SPECIFICATIONS

### System

Operating system	Android 12.0 GMS certified
CPU	Advanced octa-core CPU 2.0 GHz
RAM	6 GB
ROM	128 GB
Extension	Micro SD card, up to 256 GB

### GNSS Accuracies <sup>(1)</sup>

Channel	1408
Constellation	BDS: B1I, B2I, B3I, B1C, B2a, B2b GPS: L1C/A, L1C, L2P (Y), L2C, L5 GLONASS: L1, L2 Galileo: E1, E5a, E5b, E6* QZSS: L1, L2, L5, L6* SBAS*: L1, L5 Navic: L5 (upgradable)
RTK	1-3 cm HRMS
Network RTK Accuracy	H: 1 cm, V: 2 cm
DGPS	H: 3 cm, V: 6 cm
Autonomous	< 1 m HRMS
Lband	Support B2b
Typical Accuracy	H: 10 cm V: 20cm; H: 5 cm V: 10cm (with external antenna)
Position update	Up to 10Hz

### Display

Size	8.1" touch screen
Resolution	1920 x 1200
Brightness	600 cd/m <sup>2</sup>
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

### Internal sensors

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

### Accessories

- Screen protector
- Type-C USB cable
- Hard cover
- Helix antenna
- Touch pen
- Charger

### DATA FORMATS

RTCM 3.x  
NMEA 0183 output  
VRS, Single base  
NTRIP Client

### 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 1 m.
Shock	1.2 m fall onto concrete
Humidity	5% - 95% RH (without condensation)
Size (L x W x H)	215.5 mm x 130 mm x 14.5 mm (8.5 in x 5.1 in x 0.6 in)
Weight	600 g (19.4 oz)
Environment	Operating: -20°C to +60°C (-4°F to +140°F) Storage: -40°C to +70°C (-40°F to +158°F)

### Communications

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/B39/B40/ B41

### Battery <sup>(2)</sup>

Li-ion battery capacity	Built-in non-removable battery 9,000 mAh
Voltage	3.8 V
Battery life	12 h
Charging time	4.0 h Fast charging: QC 3.0



\* All specifications are subject to change without notice.  
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\* Bluetooth® is the trademark owned by Bluetooth SIG, Inc.  
\* All optional parameters can't be changed after delivery.

(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 and atmospheric 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) Battery life is dependent on factors such as environment temperature, brightness, CPU service conditions etc.

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