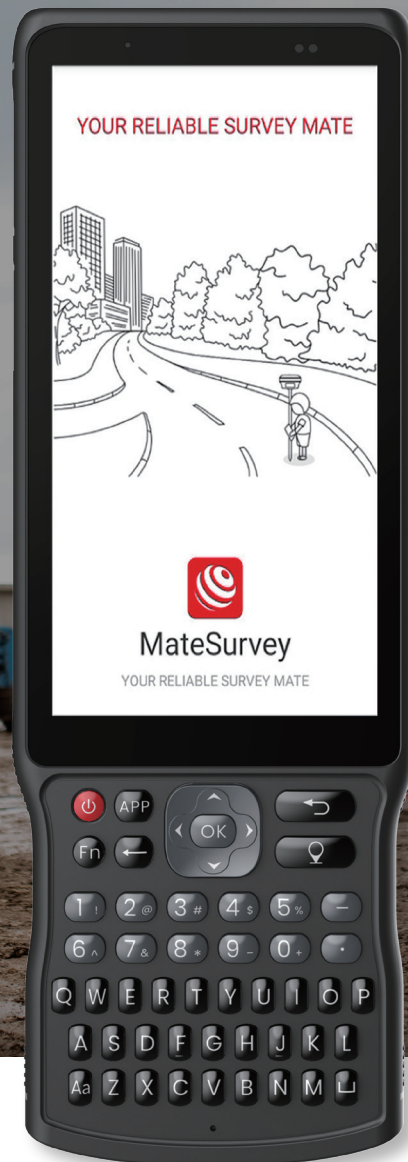


GEOMATE

Premium Surveying. Trusted Solutions



GEOMATE FC3

PORTABLE GNSS DEVICE DATA COLLECTOR



GEOMATE FC3

The FC3 is a lightweight, compact data collector powered by Android 11. Specifically designed for surveying and mapping in the field, it features a white backlit full QWERTY keypad and the powerful octa-core Helio MTK 6762 processor. The 5.5-inch display offers a resolution of 1440 x 720 and 500 nits brightness, ensuring exceptional sunlight readability and durability. Connectivity options include Bluetooth 5.0, dual-band 2.4G and 5G Wi-Fi, and a global 4G modem, enabling seamless integration with GNSS receivers and RTK correction sources. With a robust 9000 mAh battery, the FC3 supports over 30 hours of extended use. Its design withstands drops from heights of up to 1.5 meters and meets IP68 standards for water and dust resistance. Additionally, it includes a 90-day trial of the MateSurvey filed survey App, making the FC3 the ideal handheld controller for extreme field conditions.

TECHNICAL SPECIFICATIONS

System

Operating system	Android 11
CPU	Helio MTK6762 octa-core 2.0 GHz
RAM	4 GB SDRAM
Flash memory	64 GB
Memory card	MicroSDHC up to 128 GB

Physical

Size (L x W x H)	221 mm × 78 mm × 16.5 mm (8.7 in × 3.0 in × 0.6 in)
Weight	401 g with battery
Environment	Operating: -30°C to +60 °C (-22°F to +140°F) Storage: -40°C to +70°C (-40°F to +158°F)

Dust and water proof IP68

Humidity 5% ~ 95% (non-condensing)

Shock and vibration 1.5 m (4.9 ft) fall on concrete

Display 5.5" IPS LTPS LCD capacitive multi-touch
1440 × 720 pixels HD + 295 ppi
Brightness 500 cd/m²

Keypad White backlight, full QWERTY with 10-key number pad, directional buttons, and programmable buttons

GNSS Accuracies⁽¹⁾

Channel	45
Constellation	GPS L1C/A, GLONASS L1, BDS B1, Galileo E1, APGS
Autonomous	2~5 m HRMS

Communications

Network modem	Nano-SIM card LTE FDD: B1/B3/B5/B7/B8/B20/B28/B2/B4/B12/B17 LTE TDD: B34/B38/39/40/41(100M) WCDMA: B1/B2/B5/B8 GSM: 850/900/1800/1900
Wi-Fi	802.11 a/b/g/n/ac, access point mode (2.4 G / 5G)
Bluetooth®	V 5.0
USB	Type-C, OTG supported
NFC	Support

Electrical

Li-ion battery capacity 9000 mAh

Operating time⁽²⁾ 30+ hours

Charging time 4 h (typical)

Sensors & Multimedia

13 MP rear camera with auto-focus and flash
Professional high-light flashlight
GNSS (BDS, GPS, GLONASS) A-GPS support
G-sensor
E-compass
Light sensor
Speaker
Microphone

Standard Accessories

A/C charger
USB cable
Stylus
Handstrap
Range pole bracket

Field Software

GEOMATE MateSurvey App (90-day trial version included)
3rd party Android applications

Certifications

UN38.3



*All specifications are subject to change without notice.

(1) Accuracy and reliability are determined under clear unobstructed conditions, multipath, satellite geometry and atmospheric conditions. Performances assume minimum of 5 satellites, follow up of recommended general GPS practices.

(2) Operating time varies based on temperature.

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