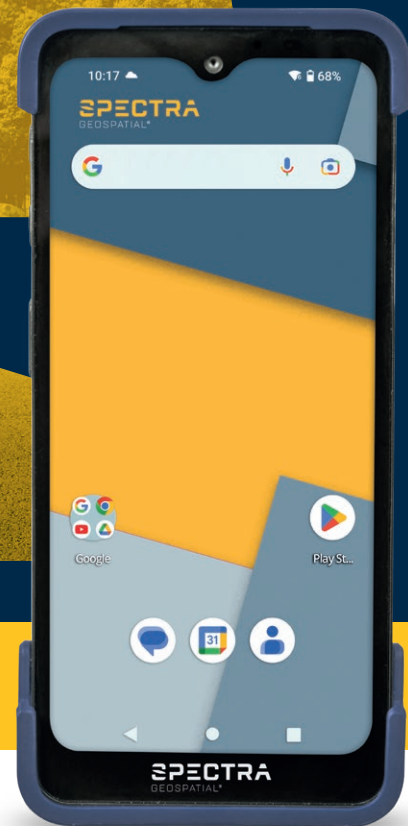


MOBILE MAPPER 6

DATASHEET



5G capable device

for fast data processing.

Trusted Android 12 operating system

with GMS (Google® Mobile Services), AER (Android® Enterprise Recommended) and ARCore certifications and compatibility with Google Play applications.

Bright, high resolution 6.3-inch

Gorilla® glass screen for all conditions.

Lightweight form factor

convenient for field professionals—rugged, all-weather handheld to efficiently perform your job.

Military certifications

MIL-STD-810H, IP67.

Hot-swappable battery

for continuous usage.

Boost efficiency with a cutting-edge solution and your choice of workflow.

The Spectra Geospatial® MobileMapper® 6 data collector provides access to advanced accuracy for a wide range of professional handheld data collection workflows. Offering durability and efficiency, this super-rugged handheld is slimline, lightweight and includes 5G capability, with an advanced and secure Android OS.

With the cost-effective MobileMapper 6, surveying and GIS professionals can work in all manner of demanding environments quickly, accurately and more productively than ever before.

MobileMapper 6, the affordable rugged data collector you can depend on.

PHYSICAL SPECIFICATIONS

- Size: 172 mm × 81.2 mm × 24.3 mm (with bumpers)
- Weight: 287 g (with standard battery and bumpers)

SYSTEM SPECIFICATIONS

- Processor: 2.7 GHz Qualcomm 6490
- Core: Octa-core 64 bit
- Clock frequency: 8x Kryo 670 CPU from 1.9 up to 2.7 GHz
- Memory: 6 GB RAM
- Data storage: 64 GB Flash
- SD support, expansion capability
 - microSD slot with SDHC and support up to 256 GB
- Battery type: Hot-swappable Li-Ion battery
- Battery capacity: 5100 mAh @ 3.8 V
- Backup battery
 - Backup battery keeps applications active up to 1 minute to support hot-swap functionality
- Battery life:
 - 5000 mAh, 9 hours of normal use with screen 100%
 - Battery self-discharge (Typical) <140µA@BAT>2.5 V, <26µA@BAT<2.5 V
 - Battery storage
 - Suggested re-charge period is 3 months
- Charging time: 4 hours, USB PD Charging
- I/O Interface
 - Bottom: USB Type-C
 - USB3.1 Gen 1 Type-C support USB OTG, DRP, DRD and DP (Display Port) function

INPUT/OUTPUT

- User interface keys:
 - 1. Volume up/down key, power button, programmable key, two trigger buttons on left and right of device
 - 2. Three-touch key on touch panel (back/home/recent)
- Display/Screen type/Touch
 - Gorilla 3 Glass, colour multi-touch user interface with capacitive, stylus (5 mm), glove, wet-finger compatibility
- Screen size: 6.3" (20:9)
- Resolution: 2160 × 1080 (FHD+)
- LCD brightness: Backlight minimum 450 nits (500 nits typical)
- Audio: Audio jack through USB-C, Bluetooth® audio
- Microphone: 2 integrated microphones, supports noise cancelling
- Speaker: Integrated 1.5 Watt speaker
- Rear camera: 16 MP with auto-focus and LED flash, supports Google ARcore & Depth API
- Front camera: 5 MP with fixed focus

- WWAN: Integrated 5G Cellular Data & SMS capability
- SIM: Nano-SIM x 2
- Cellular Bands:
 - 5G: FR1 Sub 6GHz: N1/N2/N3/N5/N28/N41/N71/N77/N78/N79, 4*4 DL MIMO: N1/N2/N3/N41/N77/N78/N79
 - 4G: LTE Advanced Support, Up to 100 Mbps CAT12 LTE downlink/uplink
 - LTE (FDD) – Bands 1, 2, 3, 4, 5, 7, 8, 12, 17, 20, 28, 71
 - LTE (TDD) – Bands 38, 39, 40, 41
 - 3G: UMTS/HSPA+ – Bands 1, 2, 5, 8
 - 2G: GPRS/EDGE (850/900/1800/1900 MHz)
 - Wi-Fi®
 - Wi-Fi 6E, 2.4 GHz & 5 GHz & 6 GHz
 - IEEE 802.11a/b/g/n/ac/d/h/i/k/r/v/ac/ax (MIMO 2X2)
 - Security WPA3, WPA2, WPA & WEP
- Bluetooth: Bluetooth 5.2, BLE5, Class1
- NFC:
 - ISO14443-4 (Type A, Type B), ISO15693, Mifare, Felica (ISO/IEC18092)
 - Supports Read/Write & Card emulation modes
- Sensors: G-sensor (Accelerometer), Proximity + Light Sensor, E-Compass, Gyroscope

GNSS

- Satellites: GPS, GLONASS, Galileo, BeiDou, QZSS, SBAS
- Supports L1+L5
- Internal GNSS receiver accuracy: 2-4 metres
- External antenna connector: No

OPERATING SYSTEM

- Operating system
 - Android 12 with Google Mobile Services and mid-life update to Android 14
 - Quarterly Android security updates through the end of 2028
 - ARCore
 - AER

COMPATIBILITY

- Supported software: Spectra Geospatial Origin and Origin Lite
- Supported hardware: Spectra Geospatial SP100, SP85, SP60, FOCUS® 50

STANDARD ACCESSORIES

- Included in the box: Spectra Geospatial MobileMapper 6 handheld, battery pack, bumpers, screen protector, USB cable, QR code card linked to help portal

OPTIONAL ACCESSORIES

- Accessory parts: Battery pack, bumpers, screen protectors, USB cable, AC adapter, magnetic and non-magnetic pole mount/bracket

ENVIRONMENTAL

- Operating temperature
 - -20 °C to +55 °C
 - MIL-STD 810H, Method 501.7 & 502.7 Procedure II
- Storage temperature
 - Without battery
 - -40 °C to +70 °C
 - With battery:
 - -20 to +45 °C (within 30 days)
 - 0 to 30 °C (within 90 days)
 - 15 to 25 °C (within 365 days)
 - MIL-STD 810H, Method 501.7 & 502.7 Procedure I
- Battery storage
 - -20 °C to +45 °C 1 month
 - -20 °C to +35 °C 3 months
 - -20 °C to +25 °C 12 months
- Startup temperature
 - -20 °C (battery charge must be >75%)
- Charging temperature
 - 0 °C to +60 °C
- Water and dust
 - IP67
 - IEC 60529
- Drop
 - 26 drops (each face, edge & corner) at room temperature from 1.22 m (4 ft) onto plywood
 - 6 faces drops at -20 °C and +55 °C
 - MIL-STD-810H, Method 516.8 Procedure IV
- Humidity
 - 30 °C/60 °C, 95% RH
 - MIL-STD 810H, Method 507.6 Procedure II
- Vibration
 - General Minimum Integrity and Loose Cargo
 - MIL-STD 810H Method 514.8 Procedures I & II
- Altitude (low pressure)
 - Storage -30 °C, 40,000 ft
 - Operational +5 °C, 30,000 ft
 - MIL-STD 810H, Method 500.6 Procedures I & II
- Temperature shock
 - Cycles from -40 °C to +70 °C
 - MIL-STD 810H, Method 503.7 Procedure I-C
- Solar radiation (sunshine)
 - 3 and 56 days exposure
 - MIL-STD 810H, Method 505.7 Procedure I and II
- Other
 - ESD 8KV / 15KV

MANUFACTURE LOCATION

- Made in Taiwan, TAA/GSA compliant



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Please visit spectrageospatial.com for the latest product information and to locate your nearest distributor. Specifications and descriptions are subject to change without notice.