

242 mm



87.6 mm

Size: 242mm x 87.6mm x 24mm

Weight: ≤488g

Features

Android 12.0 Operating System

6" Touch Display with 720*1080 Resolution, 500 nits Brightness

8-Core Processor

4+64 GB Memory

9000mAh Li-Polymer Battery, Support QC & PD Fast Charging

White Backlight Keyboard with Full QWERTY and Numeric keypad, 2 side-mounted data collection buttons

Support 4G, Ultra-Distance Bluetooth®, Wi-Fi, NFC

IP67 Waterproof and Dustproof

R80 Data Collector

HIGHER PERFORMANCE

The R80 is a high-performance GNSS data controller with smartphone functionality, built on the Android 12.0 operating system. Powered by a robust MediaTek octa-core processor, it delivers exceptional speed and efficiency. With 4GB RAM and 64GB of storage, the device ensures seamless multitasking and rapid access to large files, including instant loading of CAD drawings.

BRILLIANT USER EXPERIENCE

Featuring a vibrant 6-inch 1080P display with 500 nits brightness, the R80 ensures excellent visibility even under direct sunlight. The touchscreen supports glove operation and hard-tip stylus input, enhancing usability in various field conditions. For efficient data entry, the device includes full QWERTY and numeric keyboards with white backlighting, designed for comfort and precision. Additionally, dedicated data collection buttons on both sides further streamline operation, enabling quick and intuitive use.

INDUSTRY-LEADING DURABILITY

Engineered for durability, the R80 boasts an IP67 certification for superior waterproof and dustproof performance. Its rugged construction ensures reliable operation even after 1.5-meter drops onto concrete, making it ideal for demanding field environments. With the high-capacity 9000mAh battery, it provides 16+ hours of continuous operation. Supporting both QC (Quick Charge) and PD (Power Delivery) fast charging technologies, it can get full charged in just 5 hours.

EXCEPTIONAL CONNECTIVITY

The R80 supports one SIM card alongside one TF card, with the latter enabling expandable storage of up to 512 GB. Outfitted with Wi-Fi, NFC, and Bluetooth 5.1, the device seamlessly pairs with and controls major-branded GNSS receivers. For hassle-free on-site documentation, its built-in 13MP autofocus camera captures high-quality site images—these can be instantly shared with team members, effectively streamlining collaboration and reporting workflows.

SinoGNSS

R80 Data Collector

R Series Data Collector Ver.2025.9.2

Overview

Android 12.0 Operating System

Field Software Solution

Survey Master software

Mock location shared to 3rd party GIS software

FieldGenius (optional)

Physical Specification

Size	242 mm × 87.6 mm × 24 mm
Weight	488 g with battery

Environmental Specification

Working temperature	- 25 °C to + 60 °C
Storage temperature	- 40 °C to + 70 °C (excluding battery)
Shock	Survive a 1.5 m drop onto concrete
Waterproof and dustproof	IP67 Standard

Electrical Specification

Processor	Media Tek 8-Core Processor
Keypad	White backlight keypad including Full QWERTY 10-key number pad directional buttons 8 programmable buttons 2 data collection buttons on the sides
Li - battery capacity	9000 mAh, working 16h+
Charging	Support QC and PD fast - charging protocols
Camera	13 megapixel camera
ROM	64GB
RAM	4GB
Card Slots	2 card slot, support one SIM card and one TF card (up to 512GB)
LED	Three - color charging indicator light: Red for charging, green for fully charged. (Supports charging indication without power - on)
Display	6" capacitive touch screen 720×1080 resolution 500 nits brightness

Communications

WiFi	802.11a/b/g/n/ac, 2.4G + 5G dual band, support fast roaming
Bluetooth	BT5.1 with downward compatibility
Type C	Support OTG, meet ESD (Contact ±8KV, Air ±15KV standard design), EOS (VBUS ±500V, VBAT ±300V), OVP (10.5V, DC withstand voltage of surge tube over 24V)
NFC	13.56MHz, readable range 20mm - 50mm, protocols ISO14443A/14443B/15693
4G	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B4/B5/B8 TDD-LTE: B34/B38/B39/B40/B41 FDD-LTE: B1/B2/B3/B4/B5/B7/B8/B12/B17/B19/B20/B25/B28A/B28B

Sensors

Acceleration sensor (Support 3 - axis)
Gyroscope sensor
Light Sensor
NFC
Electronic Compass, GPS/BeiDou/Galileo/GLONASS/QZSS/AGPS (Target SNR≥39dB at Signal level - 130dBm)

Standard Accessories(included)

QC fast charger	× 1
USB cable	× 1
Hand strap	× 1
Battery	× 1
Quick start guide sheet	× 1



SinoGNSS

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