R80 Data Collector

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 , 6GB+128GB/8GB+128GB Optional

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

White Backlight Keyboard with 51 buttons, with 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 a full-size, ergonomic keyboard 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 30+ 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 features a versatile dual-card slot design, supporting either dual SIM cards for enhanced connectivity or one SIM card plus a TF card with expandable storage up to 512GB. Equipped with Wi-Fi, NFC, and Bluetooth 5.1, the device enables pairing and control of main-branded GNSS receivers. For convenient documentation, the built-in 13MP autofocus camera captures high-quality site images that can be instantly shared with team members, streamlining collaboration and reporting workflows.

SinoGNSS

R80 Data Collector

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 30h+
Charging	Support QC and PD fast - charging protocols
Camera	13 megapixel camera
ROM	64GB(128GB is optional)
RAM	4GB(6GB/8GB is optional), separated storage
Card Slots	2 card slot, support Dual SIM Dual Standby(DSDS) or 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	x 1

Optional Accessories

Controler holder

RTK bag

Screen protector

Screwdriver

All standard accessories are also available to order separately.

SinoGNSS

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