

Specifications

Basic	
Dimensions	290 x 195 x 30mm
Weight(built-in battery)	824g (Standard), 860(Zigbee), 890(GIS)
Material	Impact-resistant TPU shell
Display	7-inch IPS LCD, 1920x1200
Brightness	850 cd/m ²
Keypad Type	Backlit QWERTY keypad
Camera	13MP rear
Battery	11550mAh/ 3.85V
Charging	5V2A, USB-C, PD fast charging
Interfaces	Type-C, NFC, MicroSD card
Performance Parameters	
Processor	Octa-core CPU (2x Performance @ 2.0GHz + 6x Efficiency @ 1.8GHz)
OS	Android 12
RAM	8GB
Storage	256GB
Wireless Communication	
WiFi	IEEE 802.11 a/b/g/n/ac 2.4G/5G Dual-Band supports fast roaming
Bluetooth	ET2.1+EDR/3.0/4.1LE/4.2/5.0
Network	4G LTE
Product Reliability	
Operating Temp	-30°C ~ +66°C
Storage Temp	-30°C ~ +70°C
Protection Rating	IP67
Drop Test	1.5m drop onto concrete surface (all six faces)
Salt Spray Test	NaCl solution concentration 5%, PH: (6.5-7.2), continuous spray 24H settling index 1.0-2ml/80cm ² .h
Vibration Test	Fixed frequency 50Hz, amplitude 100mm, duration 30min
Expansion	Zigbee module GIS module
GNSS	
GNSS Signal	1698 Channels GPS L1C/A/L1C/L2P(Y)/L2C/L5 BDS B1I/B2I/B3I/B1C/B2a/B2b GLONASS G1/G2/G3 Galileo E1/E5a/E5b/E6 QZSS L1C/A/L1C/L2C/L5 NavIC L5 / SBAS L1C/A
Positioning Precision	Single Point Positioning (RMS): Horizontal: 1.5 m Vertical: 2.5 m DGPS (RMS): Horizontal: 0.4 m Vertical: 0.8 m RTK (RMS): Horizontal: 0.8 cm + 1 ppm Vertical: 1.5 cm + 1 ppm
Zigbee	
Zigbee Connection Distance	600m (Optimal Environment)



SOUTH SURVEYING & MAPPING TECHNOLOGY CO., LTD.

Add: South Geo-information Industrial Park, No.39, Si Cheng Road, Tian He IBD, Guangzhou 510663, China

Tel: +86-20-23380888 Fax: +86-20-23380800

E-mail: mail@southsurvey.com export@southsurvey.com impexp@southsurvey.com gnss@southsurvey.com

http://www.southinstrument.com http://www.southsurvey.com

All-in-one Landscape Android Platform **H7**

H7
Main Unit

+

GNSS Zigbee
Optional Modules

- Zigbee Module
- Backlit QWERTY Keypad
- Android 12
- GNSS Module
- 11550mAh Battery
- 8+256GB
- 7.0 " Display
- Industrial protection
- 4G/WIFI/NFC

Modular Versatility, Offering More Options

Zigbee Module

—Control Robotic Total Station and Experience the Prism Plus Position Solution



The ZigBee module enables connection to robotic total stations, either alone or in conjunction with GNSS receivers, allowing for faster prism tracking and expanding your work scenarios. On H7, you will have a full and larger screen to fulfill your daily CAD stakeout.

High-precision Module—Work as a GIS Collector

The H7 can serve as a powerful GIS collector with various antenna. In addition to a portable short antenna, it can also attach a dish antenna and carbon fiber pole to transform it into a high-precision GIS collector for accurate point collection.



H7 Base Unit supports GNSS and ZigBee modules: Modules can be added without special tools anytime.
*The GNSS module includes a portable short antenna. For higher precision, an optional dish antenna is available—it connects to the H7's GNSS module and is ready for working with a pole.

Designed for Efficiency

—The Ultimate Field Companion

One Platform for Multiple Devices

When used as a regular controller, it is compatible with a wide range of devices such as SLAM RTK, GNSS receivers, total stations, and pipeline detectors. It delivers a comprehensive and flexible solution for diverse field applications, creating a new



SLAM RTK



GNSS Receiver



Total Station



Pipeline Detector

All-in-one Landscape Android Platform

H7



- 7-inch IPS LCD, 1920x1200 screen with 850 nits, always with clear information in field
- 4G cellular module, Bluetooth 5.0, dual-band Wi-Fi, providing seamless communication with your devices
- Ergonomic design lightweight body weighing 824g, hold it and like it
- Backlit QWERTY keypad with function keys, just like working on a computer

Switchable high-precision module and Zigbee module, designed for all situations



13MP rear HD camera, ensuring clear records for each project



Android 12 Operating System, 8GB RAM + 256GB ROM, open CAD files and browse point clouds at ease



11500mAh battery, the trusted partner works with you for a whole day

