

 **PHEREFIX**

S66

BASE STATION RECEIVE

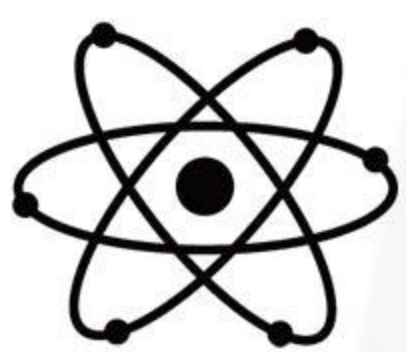


S66

S66 is a high-performance GNSS receiver that can receive comprehensive satellite signals. It comes with an embedded Linux OS, rapid positioning features, and a variety of interface options including Ethernet, WiFi, serial ports, Bluetooth, and mobile network interfaces. With diverse communication methods and compatibility with multiple protocols, it supports PPP output and large-capacity data storage. Equipped with a high-capacity battery for extended operations, S66 is your top choice for building ground-based augmentation systems.



LENGTH	WIDTH	HEIGHT	WEIGHT
172mm	148mm	58mm	1920g



COMPREHENSIVE SATELLITE SIGNAL ACQUISITION

A high-precision positioning module with full intellectual property rights, supports comprehensive reception and processing of satellite signals, including BDS B1I/B2I/B3I, B1C/B2a/B2b, GPS L1CA/L2P/L2C/L5, GLONASS G1/G2, Galileo E1/E5a/E5b, QZSS, SBAS, and IRNSS.



DIVERSE CONNECTIVITY OPTIONS

A variety of communication interfaces are provided for selection, including Ethernet, WiFi, serial ports, Bluetooth, and mobile network interfaces.



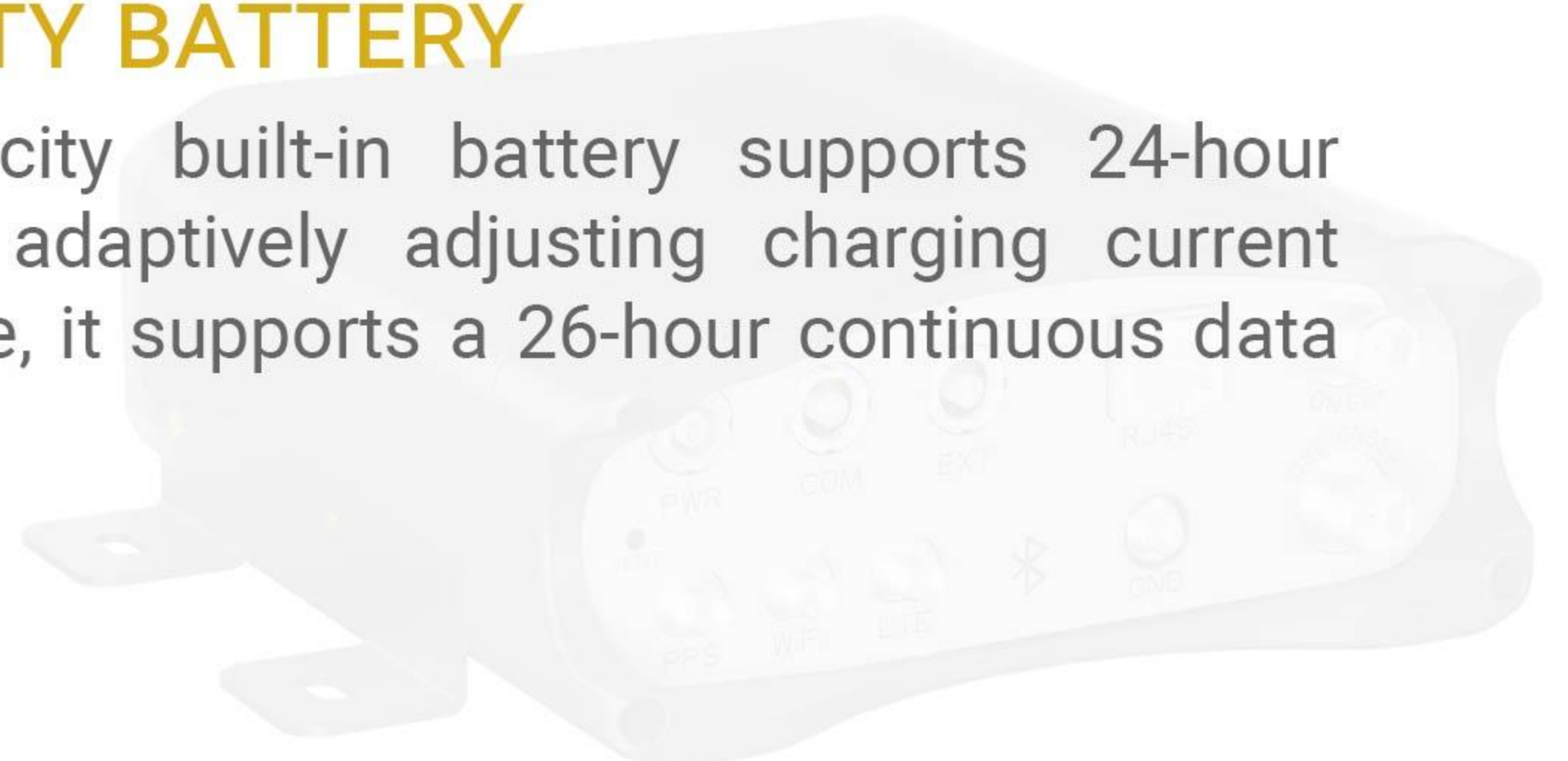
RAPID POSITIONING FEATURE

With narrowband interference resistance and continuous wave interference suppression, it enables fast initial positioning and rapid satellite signal lock and tracking, helping quickly obtain accurate positioning data for subsequent processing.



INTERNAL LARGE-CAPACITY BATTERY

The 7.8V, 13800mAh large-capacity built-in battery supports 24-hour continuous work. It's capable of adaptively adjusting charging current dynamically. In static working mode, it supports a 26-hour continuous data collection on a full charge.



ITEM

SPECIFICATION

REMARKS

HARDWARE SYSTEM

ARM Cortex-A7 1.8GHz

OS

Linux

ITEM	SPECIFICATION	REMARKS	
GNSS	GPS	L1C/A, L2P/L2C, L5	
	GLONASS	L1, L2, L3	
	BDS	B1I, B2I, B3I, B1C, B2a, B2b	
	GALILEO	E1, E5a, E5b	
	QZSS	L1 C/A, L2C, L5	
	SBAS	L1C/A	
	NavIC (IRNSS)*	L5*	Marked with *, it means firmware support is required.
	L-band		
	Standard Output	NMEA-0183	
	Correction I/O Protocol	RTCM3.X	
Frequency	1Hz, 2Hz, 5Hz, 10Hz, 20Hz max		
Reacquisition Time	<1s		
Cold Start Time	<40s		
ACCURACY	Single(RMS)	Horizontal: 1.5m Vertical: 3m	
	DGPS(RMS)	Horizontal: 0.4m Vertical: 0.8m	
	RTK(RMS)	Horizontal: ±(8mm+1ppm) Vertical: ±(15mm+1ppm)	
	Timing Accuracy(RMS)	20ns	
	Static Mode Accuracy(RMS)	Horizontal: ±(2.5mm+1ppm) Vertical: ±(5mm+1ppm)	
	Data Availability	≥98% (Available data/Collected data)	
	Data Completeness	≥98% (Collected data/Expected data to be collected)	
INTERFACE	Bluetooth	BR+EDR+BLE	
	WIFI	802.11 b/g/n	
	Network	Full frequency LTE FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28 LTE TDD: B38/39/40/41 WCDMA: B1/2/4/5/6/8/19 GSM: B2/3/5/8	Mini SIM Card
	Ethernet Port	Standard RJ45 interface, 10/100M adaptive	
	Serial Port	Two 5-pin connectors; standard RS232 interface with baud rates supporting 9600, 19200, 38400, 115200, and 230400 bps	
	Storage	32GB storage	
INDICATOR	LCD Display	Size: 1.3inch Resolution: 240*RGB*240	Full View
	Power Indicator	Indicates power and charging status	
	Differential Signal Indicator	Indicates the status of network connection	
	Satellite Indicator	Indicates satellite reception status	
	Bluetooth Indicator	Indicates Bluetooth connection status	
BATTERY/CHARGE	Capacity	7.2V, 13800mAh	
	Endurance	Over 24 hours Supports continuous data collection for 26 hours on a full charge	TBD
	Charging	TYPEC - USB PD 15V/2A 5V/3A LEMO - 12V/2A DC Input supported	With adaptive dynamic current adjustment
ENVIRONMENT	Operating Temperature	-20°C~+60°C	
	Storage Temperature	-20°C~+70°C	
	Shock Resistance	GB/T2423	
	Protection Rating	IP68	
PHYSICAL	Material	Aluminum alloy shell	
	Dimension	172mm*148mm*58mm	
	Weight	1920g	

▶ Manufacturers may update parameters at any time, please refer to the latest product information.

