

S66UGH-Lite

BASE STATION RECEIVER

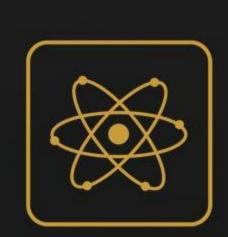


S66UGH-Lite GNSS Receiver

S66UGH-Lite is a miniaturized, and multi-functional GNSS receiver designed for the construction of the Beidou ground-based enhancement system. It has a built-in 1408-channel full-system full-frequency point positioning module, Linux operating system, rich interface types, various communication methods, and supports large capacity data storage. It is the best choice for the construction of the Beidou ground-based enhancement system.



LENGTH	WIDTH	HEIGHT	WEIGHT
135mm	102 mm	47 mm	470 g



Receive all satellite signals _

S66UGH-Lite has 1408 channels, integrates a high-precision positioning module, and supports the reception and interpretation of GNSS signals (BDS, GPS, GLONASS, GALILEO, QZSS and SBAS).



Rich interfaces, multiple communication methods.

S66UGH-Lite provides single antenna, Ethernet, serial port and mobile network interfaces for customers to choose.



Cloud service function.

S66UGH-Lite can regularly report the device status such as device location, network status, signal strength, satellite reception status, etc., and support cloud platform to restart, reset, and upgrade the remote device.



IP68_

Industrial design, solid magnesium alloy shell, in line with IP68 design requirements, safe and reliable.

Characteristic



- Qualcomm Cortex-A7
- Linux intelligent system



- BDS, GPS, GLONASS, Galileo, QZSS, SBAS
- Ethernet, WiFi, serial ports, Bluetooth, mobile network interfaces



- Supports Ntrip Client/Server/Caster, TCP Client/Server, FTP for file transfers.
- Supports HTTP/HTTPS for secure communications over protected networks.



- Front-end Calculation Capability
- Reduced Cloud Server Load

Key Features

- Channel:
 - GNSS Tracking:

1408

BDS, GPS, GLONASS, Galileo, QZSS, SBAS

- Interface:
 - PWE*1: Power supply port, SIM*1: Standard SIM card,
 - GNSS*2: TCN port, DATA*1, PPS*1, Ethernet*1, 4G*1
- Voltage Input:
 - 9-24V DC (12V typical)
- Power Dissipation:
 - 1.8W(typ)

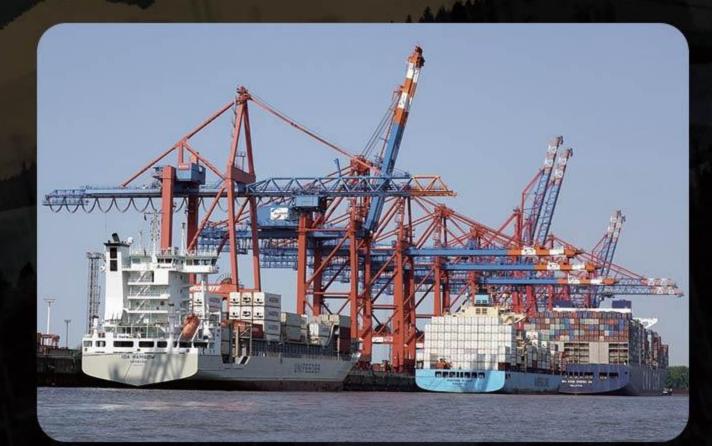


Application Scenario

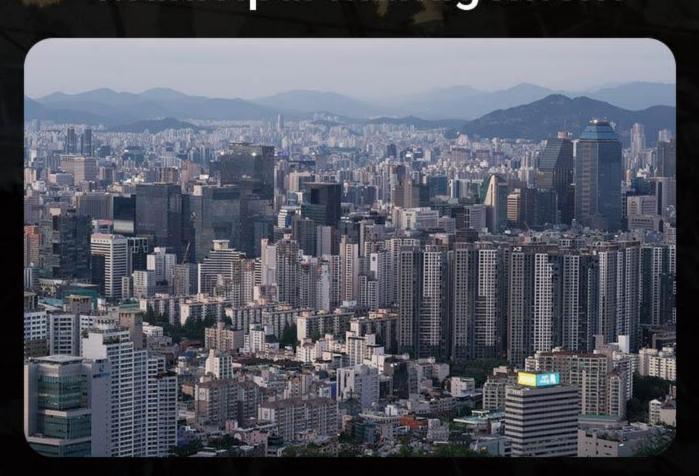
Geodetic measurement



Logistics management



Municipal Management



	ITEM	SPECIFICATION	REMARKS
HARD	WARE SYSTEM OS	ARM Cortex-A7 1.8GHz Linux	
	GPS GLONASS BDS GALILEO QZSS SBAS	L1C/A, L1C, L2P(Y), L2C, L5 L1, L2, L3 B1I, B2I, B3I, B1C, B2a, B2b E1, E5a, E5b, E6 L1, L2, L5 L1	Support PPP-B2b Support PPP-E6 Support SBAS
GNSS	NavIC(IRNSS)* Channel Differential Observation Accuracy(RMS)	L5* 1408 channels 10.0cm	Requires latest firmware support
	Kinematic Phase Observation Accuracy (RMS)	1.0cm	
	Data format Position Data Differential Data	RINEX, Custom NMEA-0183 RTCM3.X	
	Data update frequency Receive Data Availability	1Hz, 2Hz, 5Hz, 10Hz, 20Hz ≥98%(Data available/Data collected)	
	Data Integrity	≥98%(Data collected/Data should be collected)	
	Single(RMS)	Horizontal: 1.5m Vertical: 2.5m	
	RTK(RMS)	Horizontal: ±(8mm+1ppm) Vertical: ±(15mm+1ppm)	
	Static Accuracy(RMS)	Horizontal: ±(2.5mm+0.5ppm) Vertical: ±(5mm+0.5ppm)	
	Time Accuracy(RMS)	20ns	
	Serial Port	Standard RS232 interface, Baud rate supports 1200, 2400, 4800, 9600, 19200, 38400, 115200, 230400bps	
	Network port	Standard RJ45 interface, 10/100Mbps network adaptive	
SYSTEM	USB	Integrated on the 7-pin interface, support access to the computer to copy data directly	
	Network Communication (Full Netcom)	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	
	Interface	PWE*1: Power supply port DATA*1 PPS*1 SIM*1: Standard SIM card Ethernet*1 GNSS*1: TNC interface 4G*1: 4G antenna port	
	Storage	32GB, circular storage support multi-channel storage	
ELECTRICAL CHARACTERISTIC	Voltage Input Power dissipation	9-24V DC (12V typical) 1.8W(typ)	
ENVIRONMENT	Operating Temperature Storage Temperature Protection	-40℃~+85℃ -40℃~+85℃ IP68	
PHYSICAL	Material Dimension Weight	Magnesium alloy main body 135mm*102mm*47mm 470g	

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