

S66UGH-Lite

BASE STATION RECEIVER

Provide Single Antenna



Cloud Service Function

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	102mm	47mm	470g

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, 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

Provide Single Antenna

• Channel:	GNSS Tracking:
1408	BDS, GPS, GLONASS, Galileo, QZSS, SBAS
• Interface:	
	PWE*1: Power supply port, SIM*1: Standard SIM card,
	GNSS*1: TCN port, DATA*1, PPS*1, Ethernet*1, 4G*1
• Voltage Input:	Power Dissipation:
9-24V DC (12V typical)	1.8W(typ)



Application Scenario

Geodetic measurement



Logistics management



Municipal Management



ITEM	SPECIFICATION	REMARKS
HARDWARE SYSTEM		
OS	ARM Cortex-A7 1.8GHz Linux	
GNSS	GPS GLONASS BDS GALILEO QZSS SBAS NavIC(IRNSS)* Channel Differential Observation Accuracy(RMS) Kinematic Phase Observation Accuracy (RMS) Data format Position Data Differential Data Data update frequency Receive Data Availability Data Integrity Single(RMS) RTK(RMS) Static Accuracy(RMS) Time Accuracy(RMS)	L1C/A, L1C, L2P(Y), L2C, L5 L1, L2, L3 B1I, B2I, B3I, B1C, B2a, B2b E1, E5a, E5b, E6 L1, L2, L5 L1 L5* 1408 channels 10.0cm 1.0cm RINEX, Custom NMEA-0183 RTCM3.X 1Hz, 2Hz, 5Hz, 10Hz, 20Hz ≥98%(Data available/Data collected) ≥98%(Data collected/Data should be collected) Horizontal: 1.5m Vertical: 2.5m Horizontal: ±(8mm+1ppm) Vertical: ±(15mm+1ppm) Horizontal: ±(2.5mm+0.5ppm) Vertical: ±(5mm+0.5ppm) 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
	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 SIM*1: Standard SIM card GNSS*1: TNC interface DATA*1: Ethernet*1 4G*1: 4G antenna port
	Storage	32GB, circular storage support multi-channel storage
ELECTRICAL CHARACTERISTIC	Voltage Input	9-24V DC (12V typical)
	Power dissipation	1.8W(typ)
ENVIRONMENT	Operating Temperature	-40°C~+85°C
	Storage Temperature	-40°C~+85°C
	Protection	IP68
PHYSICAL	Material	Magnesium alloy main body
	Dimension	135mm*102mm*47mm
	Weight	470g

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