



S66UGH-Lite

BASE STATION RECEIVE

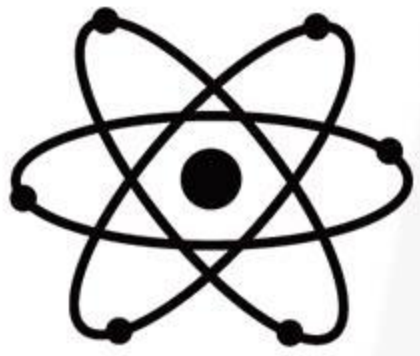


S66UGH-Lite

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 AND VARIOUS COMMUNICATION METHODS

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



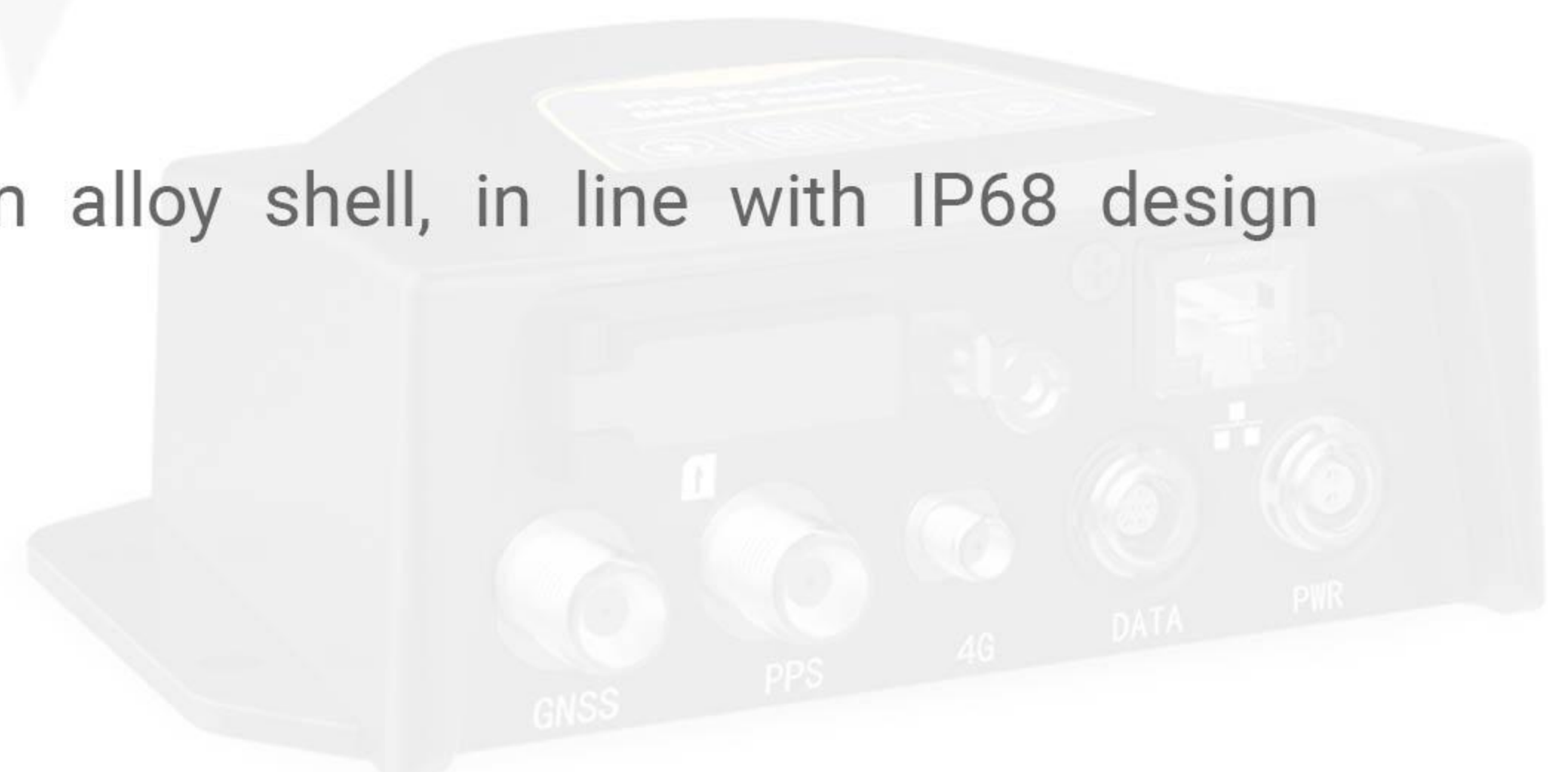
CLOUD SERVICE FUNCTION

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.



ITEM

SPECIFICATION

REMARKS

HARDWARE SYSTEM

ARM Cortex-A7 1.8GHz

OS

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

Support PPP-B2b
Support PPP-E6
Support SBAS

IRNSS support in future

SYSTEM

Serial Port
Network Port
USB
Network Communication (Full Netcom)
Interface
Storage

Standard RS232 interface,
Baud rate supports 1200, 2400, 4800, 9600, 19200, 38400, 115200, 230400bps
Standard RJ45 interface,
10/100Mbps network adaptive
Integrated on the 7-pin interface, support access to the computer to copy data directly
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
PWE*1: Power supply port DATA*1 PPS*1
SIM*1: Standard SIM card Ethernet*1
GNSS*1: Main antenna 4G*1: 4G antenna port
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°C
-40~+85°C
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.