SPECIFICATIONS

SPECIFICATIONS	
Surveying performance	
Signal tracking	336 channels, 220 channels(optional)
	BDS B1. B2. B3
	GPS L1C/A, L2C, L2E, L5
	GLONASS L1C/A, L1P, L2C/A, L2P, L3
	SBAS L1C/A, L1F, L2G/A, L2F, L3
	Galileo E1, E5A, E5B, E5AltBOC, E6
	IRNSS L5
	QZSS L1 C/A, L1 SAIF, L2C, L5, LEX
	SBAS L1 C/A, L5
L-Band	Trimble RTX
GNSS features	Positioning output rate: 1Hz~50Hz
ONOO Icatures	Initialization time: <10s
	Initialization reliability: >99.99%
2 10 1	Initialization reliability. >99.99%
Positioning precision	
Code differential GNSS positioning	Horizontal: 0.25m + 1ppm
	Vertical: 0.50m + 1ppm
	SBAS positioning accuracy: typically<5m 3DRMS
Static GNSS surveying	±(2.5mm + 1mm/km x d) (d: the distance between measured points, km)
Real-time kinematic surveying	±(8mm + 1mm/km x d) (d: the distance between measured points, km)
RTX	Horizontal: 4-10cm (5-30min)
RIA	
	Vertical: 8-20cm (5-30min)
Operation system/User interface	
Operaing system	Linux
Buttons	Double buttons and visual operation interface
LCD	0.96 inch HD OLED screen, the resolution is 128 x 64
Web interaction	Visiting the internal management web page via WIFI or USB mode, to monitor the receiver
	status and change the configuration freely
Voice	iVoice intelligent voice technology provides status and operation voice promptly
VOICE	Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish
	Supporting user defined voice
Secondary development	Providing secondary development package, and opening the OpenSIC observation data
	format and interface definition for secondary development
Data cloud service	
	Web page cloud service management platform, supporting online register etc.
Hardware performance	The page sieur control management placemin, capporting entire register etc.
Dimension	152mm (diameter) × 137mm(height)
Weight	1.44kg (including battery)
Material	Magnesium alloy shell
Temperature	Operating: -45°C ~ +60°C, Storage: -55°C ~ +85°C
Humidity	100% Non-condensing
Protection Level	Waterproof: IP67 standard, protected from long time immersion to depth of 1m
	Dustproof: IP67 standard, fully protected against blowing dust
Shock and vibration	Withstand 2 meters drop onto the cement ground naturally
Electrical	9-25V wide voltage DC design, with overvoltage protection
	High capacity removable battery with the indicator displaying the power usage
Dotton	I Fight capacity removable pattery with the indicator displaying the power usage
Battery	
	Voltage 7.4V, 6800mAh/per
Battery life	
•	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution)
Battery life	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution)
Battery life Communications	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG)
Battery life Communications	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot
Battery life Communications I/O port	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W
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Battery life Communications I/O port Wireless modem	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel
Battery life Communications I/O port	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network
Battery life Communications I/O port Wireless modem Cellular mobile network	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network
Battery life Communications I/O port Wireless modem Cellular mobile network	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi
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Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data storage	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage
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Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data storage Data transmission	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc.
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data transmission	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data transmission	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183, PJK plane coordinates, binary code, Trimble GSOF
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data transmission Data format	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data transmission Data format Inertial sensing system	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIF1 hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183. PJK plane coordinates. binary code. Trimble GSOF Network model support: VRS, FKP, MAC, supporting NTRIP protocol
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data transmission Data format	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183. PJK plane coordinates. binary code. Trimble GSOF Network model support: VRS, FKP, MAC, supporting NTRIP protocol
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data storage Data transmission Data format Inertial sensing system Tilt survey	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIF1 hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183. PJK plane coordinates. binary code. Trimble GSOF Network model support: VRS, FKP, MAC, supporting NTRIP protocol
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data storage Data transmission Data format Inertial sensing system	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183. PJK plane coordinates. binary code. Trimble GSOF Network model support: VRS, FKP, MAC, supporting NTRIP protocol
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data storage Data format Inertial sensing system Tilt survey Electronic bubble	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183. PJK plane coordinates. binary code. Trimble GSOF Network model support: VRS, FKP, MAC, supporting NTRIP protocol Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle of the centering rod Controller software display electronic bubble, checking leveling status of the centering rod real time
Battery life Communications I/O port Wireless modem Cellular mobile network Double module Bluetooth WIFI Standard WIFI hot spot WIFI data link Data storage/ transmission Data storage Data transmission Data format Inertial sensing system Tilt survey	Voltage 7.4V, 6800mAh/per More than 30h (static mode), More than 15h (RTK mode), (Providing the 7 × 24h battery solution) 5-PIN LEMO port, 7-PIN USB port (OTG) 1 network/radio data link antenna port, SIM card slot Integrated internal radio receiver and transmitter 1W/2W/3W External radio transmitter 5W/25W Working frequency 410-470MHz Communication protocol: TrimTalk450s, SOUTH, SOUTH+, SOUTHx, huace, ZHD, Satel TDD-LTE, FDD-LTE 4G network modem, downward compatible with WCDMA/CDMA2000 3G network and GPRS/EDGE 2G network BLEBluetooth 4.0 standard, support for android, ios cellphone connection, Bluetooth 2.1 + EDR standard IEEE 802.11 b/g Adopting the WIFI hot spot function, any smart terminals (controller, cellphone and PC) can connect to the receiver easily The receiver can transmit and receive correction via WiFi 8GB internal storage Supporting external USB data storage Changeable record interval, supports up to 50Hz raw data collection USB data transmission, FTP download, HTTP download Static data format: STH, Rinex2.x and Rinex3.x etc. Differential data format: CMR+, CMRx, RTCM 2.1, RTCM 2.3, RTCM 3.0, RTCM 3.1, RTCM 3.2 GPS output data format: NMEA 0183. PJK plane coordinates. binary code. Trimble GSOF Network model support: VRS, FKP, MAC, supporting NTRIP protocol Built-in tilt compensator, correcting coordinates automatically according to the tilt direction and angle of the centering rod



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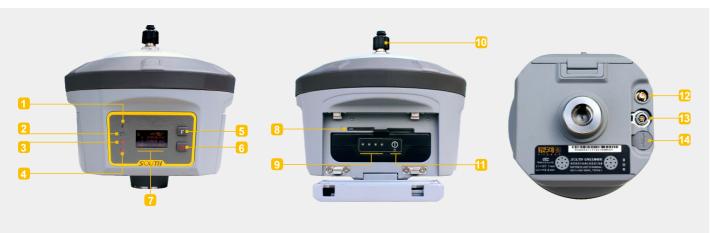
GALAXY G6

-Innovative GNSS Receiver-



GALAXY G6

During the Multiple constellation age, SOUTH keep developing and optimizing the innovative products for customers, SOUTH Galaxy G6 RTK system adopts intelligent cloud platform as its new engine, to lead the development or smart RTK system.



- 1. Bluetooth indicator
- 2. Static storage indicator
- 3. Data interaction
- 4. Power indicator
- 5. Function key
- 6. Power key
- 7. LCD
- 8. SIM card slot
- Battery indicator
- 10. UHF antenna port
- 11. Battery key
- 12. Network antenna port
- 13. Standard LEMO (5 pins)
 - /RS232
- 14. USB

KEY FEATURES

Intelligent cloud platform

Embedded Linux operation system+ SOUTH intelligent cloud platform.

The receiver is no longer an independent hardware device, it's a complete intelligent operation system with web page cloud platform.



E-bubble

The internal Electronic bubble sensor can correct the survey result and support receiver to survey without leveling.



Tilt survey

The internal Tilt sensor helps receiver to survey without centering, in order to improve survey efficiency, and tilt angle can reach 30 degree maximum.



Intelligent data communication

Internal radio

Internal transmission and receiving radio module supporting Trimtalk450S and SOUTH protocol change and High, medium and low power switch.

Network

Adopting new network program frame, it supports all kinds of network types to access CORS seamlessly. 3.5G high speed network and is extendable to 4G.

Smart dialing

Using the intelligent PPP dialing technology and adopting the network loading mechanism same to the smart cellphone. Keeping G6 online continuously during the survey, making connection much faster

WIFI data link

Adopting the WIFI as the data link which improves the measurement result, and the AP hot spot function make any smart terminals can connect to the receiver to control it.



Intelligent storage technology

- Internal 8G storage supporting external U disk storage
- *Supporting STH, Rinex format, sample frequency can reach to 50Hz
- Automatic circular storage, delete the primary data once the disk is full automatically
- On-key intelligent copy, supporting direct data copy by external U disk



Intelligent power supply technology (Optional)

- Long endurance removable lithium battery which can display the remaining power real time
- Equipped with large capacity portable power source which supply the power continuously
- Supporting cellphone battery charging
- Adopting intelligent power saving mode, rising the endurance time 20% under the normal work mode



Radio Router

Galaxy G6 is able to transmit the correction from reference station to other Rovers by its excellent internal radio, greatly improve the utility of device and the flexibility of fieldwork



Web UI management platform

The internal Web UI management platform of galaxy G6 supports WIFI and USB mode connection. Users can monitor the receiver status and configure it via the internal Web UI management platform.



iVoice intelligent

iVoice intelligent voice technology provides status and operation voice promptly, and supports multiple languages.



HD LCD

0.96 inch HD OLED colorful LCD supporting multiple language display and it is suitable to field work with high brightness and low power consumption.



Full satellite constellations support

Equipped with most advanced GNSS boards, SOUTH Galaxy G6 system can track most signals from all kinds of running satellite constellation, especially support B1,B2 signal from Beidou, also is able to get position result only with Beidou signal.



Intelligent temperature control technology

Built-in several thermometer sensors, intelligent temperature control technology, monitor and adjust the receiver temperature real time and guarantee the best work status.

