Specification>>>

Performance Specification	
	GPS: L1C/A, L1C, L2P(Y), L2C, L5
Satellite signals tracked	GLONASS: L1, L2,L3
simultaneously	BEIDOU: B1I, B2I, B3I, B1C, B2a, B2b
Simultaneously	GALILEO: E1, E5a, E5b,E6
	QZSS: L1, L2, L5, L6
	SBAS: L1, L5
Channole	IRNSS: L5
Cold start	1408 tracking Channels
Cold start Hot start	<60 s
	<15 s
Positioning output rate	1Hz - 20Hz
Signal Reacquisition	<1s
RTK Initialization time	<10s
nitialization Reliability	>99.99%
Time accuracy	20 ns
Positioning ¹	
Cadadiffarantial	Horizontal: 0.25 m + 1 ppm RMS
Code differential	Vertical: 0.50 m + 1 ppm RMS
GNSS positioning	SBAS differential positioning
	accuracy: typically <5m 3DRMS
Static GNSS surveying	Horizontal: 2.5 mm + 0.5 ppm RMS
	Vertical: 5 mm + 0.5 ppm RMS
Real Time Kinematic Surveying	
Cinalo Dosalina - 20 I/NA	Horizontal: 8 mm + 1 ppm RMS
Single Baseline < 30 KM	Vertical: 15 mm + 1ppm RMS
NI-4	Horizontal: 8 mm + 0.5 ppm RMS
Network RTK ³	Vertical: 15 mm + 0.5 ppm RMS
HARDWARE	
PHYSYCAL	
Material	Magnesium alloy
Dimensions	131×64mm
weight	0.76kg
Operating temperature	-40°C to + 75°C
Storage temperature	-55°C to + 85°C
	IP67 dust proof, protected from
Protection IP	30min immersion to depth of 1m
Shock	Survive 2 m drop onto the concrete
Vibration	MIL-STD-810G
Humidity	100%, condensing
	100%, Condensing
ELECTRYCAL Power	0.24VDC ovtornal novyor
	9~24 V DC external power
USB Type-C fast charging Battery capacity	Support Internal 7000mAh lithium-ion battery
вашегу сарасиу	
	Rover Mode: 15 hours
Battery Life	Base Mode: 7 hours
	Static Mode: 17 hours
Communication & Data Storage	
I/O interface	
_EMO port (5pin)	Supports power input, serial port control,
Por (opin)	and external radio communication
JSB Type-C port	Charging
Sim card slot	Supports Nano-SIM
Antenna port	UHF antenna interface
Radio modem	
	1/2 w switchable,Work range can reach to
Transmit power	15km under AlphaTalk15 protocol
requency band	410MHz-470MHz; supports to set the frequency
Protocols	AlphaTalk15, TrimTalk450s, SOUTH, Satel,PCC-EOT
Cellular	,p
Integrated full frequency multi band 4G modem, supp	orts WCDMA/CDMA2000/TDD-LTE/FDD-LTE
WIFI	
802.11 b/g standard, access point & client mode, supp	orts access to hotspot for correction transmission
Sluetooth	, or to access to hotoportion correction transmission
Fully integrated Bluetooth V5.2, range ≤ 50m	
Data format	MEA quitoute
RTCM2x, RTCM3x, CMR & CMR+, sCMRx, Dat, RINEX, N	MEA outputs
Storage	
	oility to collect over one year raw observation based on 5 seconds interval
Others	
System integration	
OS system	Intelligent LINUX operating system
Filt Compensation	IMU up to 120° (Calibration free)
Supported controllers	All android devices with supported software
Design	
	Power key
outton	
outton	
	Power indicator, data link indicator,
Indicator	Power indicator, data link indicator, satellite indicator, Bluetooth indicator
button Indicator Voice	Power indicator, data link indicator,

Support WEBUI configuration



PRECISE











FULL GNSS

Product Introduction >>>

L100 PRO is a new generation of compact smart GNSS receivers designed for various surveying projects using latest GNSS features. This receiver equipped with modern required technologies such as Bluetooth module, IMU tilt sensor, 7000mAh lithium-ion internal battery, etc. L100 PRO is able to work in different work modes (Network RTK, Static & PPK) based on different required accuracy & conditions. L100 PRO is the most economic GNSS package you can purchase to fulfill your technical needs on field!

Multi constellation

L100 PRO with its 1408 channels new generation full GNSS chipset & ability to support multiple satellite constellation including GPS, GLONASS, BEIDOU, GALILEO, QZSS, SBAS and IRNSS provides precise and accurate spatial data for all users around the world.

WiFi and WebUI

L100 PRO serves as a WIFI hotspot, so users can easily access, manage the status, set the configuration or download static and PPK raw data through advanced WebUI using computer, smartphone or other electronic devices with WIFI support without any need to third party software or cable.

IMU Tilt Sensor

L100 PRO is equipped with a fast initialization, calibration free & immune to magnetic interference Inertial Measurement Unit (IMU). All users can use this technology to collect or stakeout topo points up to 120°.

Working mode

Every surveyor needs to operate and choose suitable working method based on project requirements and required accuracy. In order to work in such condition users will need a device to be able to work in different modes such as Static, Network RTK, UHF RTK, PPK & etc. L100 PRO is offering all you need in a package!

IP67

Choosing a small, light but professional, reugged GNSS receiver has always been a concern among professional surveyors. L100 PRO with its high quality magnesium alloy body provides such advantages without decreasing quality or notable increase in price.

Battery & Power

L100 PRO is delivered with an internal large capacity 7000mAh lithium-ion internal battery supporting USB type-C fast charging which allows users to work for more than 12 hours in daily field work.

GSM & UHF radio

15KM

12h

A fast internet connection is guaranteed with a built-in 4G module that accelerate receiving correction data using all telecommunication signals and bands. L100 PRO comes with an integrated 15 km-range Tx/Rx internal UHF radio that ranges from 410 MHz to 470 MHz with selectable frequency providing ability to connect and collect accurate real time data in Base/Rover mode.