SPECIFICATIONS

Satellite Signals Tracked Simultaneously	
Signal tracking	600 channels
	BDS B1,B2,B3
	GPS L1C/A,L1C,L2C,L2E,L2P,L5
	GLONASS L1C/A,L1P,L2C/A,L2P,L3
	QZSS L1C/A,L1 SAIF, L1C,L2C,L5,LEX
	SBAS L1C/A,L5
	Galileo Glove-A and Glove-B, E1, E5A, E5B, E5AltBOC, E6
	MSS L-Band: Preserved
GNSS features	Positioning output rate: 1Hz~50Hz
	Initialization time: <10s
	Initialization reliability: >99.99%

Positioning precision		
Code differential GNSS positioning	Horizontal: ±0.25m+1ppm	Vertical: ±0.50m+1ppm
SBAS positioning	Typically<0.5m 3DRMS	
High-Precision Static	Horizontal: ±3mm+0.1ppm	Vertical: ±3.5mm+0.4ppm
Static and Fast Static	Horizontal: ±2.5mm+0.5ppm	Vertical: ±5mm+0.5ppm
UHF RTK	Horizontal: ±8mm+1ppm	Vertical: ±15mm+1ppm
Network RTK	Horizontal: ±8mm+0.5ppm	Vertical: ±15mm+0.5ppm
RTK initialization time	2~8s	

User interaction	
Operating System	Linux
Buttons	Double Button Operation
Indicators	Four Indicator Lights
Web UI	Freely configure and monitor the receiver by accessing to the web server via Wi-Fi or USB
Voice guide	iVoice intelligent voice technology provides status and voice guide
	Supporting Chinese, English, Korean, Russian, Portuguese, Spanish, Turkish and user defined language
Secondary development	Providing secondary development kit

Hardware performance	
Dimension	130mm(Diameter)x85.3mm(Height)
Weight	820g
Material	Magnesium aluminum alloy shell
Operating	-45°C~+70°C
Storage	-55°C~+85°C
Humidity	100% Non-condensing
Waterproof	IP67 standard, protected from short time immersion to depth of 1m
Dustproof	IP67 standard, fully protected against blowing dust
Shock and vibration	Withstand 2 meters pole drop onto the cement ground naturally
Battery	6800mAh, Li-ion battery built in, 7.4V
Battery life	10-14hours (Supporting external battery)
External DC Power	9-28V

Communications	
I/O port	5PIN LEMO external power port+RS232, 7PIN external USB(OTG)+Ethernet
	1 radio antenna interface
Wireless modem	Built-in radio 1/2/3W
Frequency Range	410-470MHz
Communication Protocol	TrimTalk450s, TrimMark3, SOUTH (KOLIDA)
Double Module Bluetooth	BLEBluetooth 4.0 standard, support for android, ios cellphone connection
	Bluetooth 2.1+EDR standard , able to transmit and receive RTK correction data in Base-Rover mode.
NFC Communication	Realizing close range (shorter than 10cm) automatic pair between receiver and controller
	(controller equipped NFC wireless communication module needed)
External Devices	Optional external GPRS/EDGE dual-mode communication module, switchable;
	allow to connect external WLAN card

WIFI	
Standard	802.11 b/g standard
WIFI Hotspot	The WIFI hotspot allows smart mobile terminal to connect and access to the internal webserver to control
	and monitor receiver
WIFI data link	To work as the datalink that receiver is able to broadcast and receive differential data via WIFI

Data storage/ Transmission	
Data Storage	8GB SSD internal storage
	Support external USB storage (up to 32 GB) and automatical cycle storage
	Changeable record interval, up to 50Hz raw data collection
Data Transmission	USB data transmission, supporting FTP/HTTP data download
Data Format	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, fully support NTRIP protocol

Inertial sensing system	
Electronic bubble	Controller software displays electronic bubble, user can check leveling status of the centering rod real time
Thermometer	Built-in thermomter sensors, features intelligent temperature control technology which can monitor and
	adjust the temperature of receiver in real time

KOLIDA
Professional's Choice

SuperRTK K3

600 Channels, Smallest Full Function RTK Ever
Enhanced BEIDOU Signal Processing Ability
14 Hours Continuous Working
Web UI, Wifi, E-Bubble

600 Channels Full constellations

K3 is equipped with a Kolida K800 series GNSS board which has 600 channels and is capable to support multiple satellite constellations: GPS, GLONASS, BEIDOU and GALILEO, SBAS, including the latest Beidou-3 system.

(The receiver has the ability to get RTK FIXED solution by using individually any of the existed satellite systems and not necessarily primarily use GPS system.)

Small As an Apple

The diameter of the K3 is only 13cm, height only 8.53cm, and the weight is only 820g. It is as small as an apple that you can even put it into your pocket.
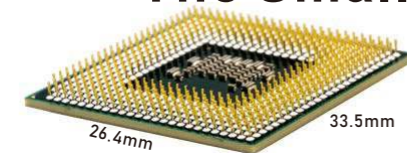
New Integration Technology New Level of Stability

GNSS antenna, Bluetooth, wifi module are integrated into one board, which helps to save the internal space of K3, making the signal better and performance more stable.

This design also can reduce multipath effect, help receiver to keep fixed solution under canopy and even work closely to buildings.

The Smallest UHF Radio in the History

The latest micro UHF module has high sensitivity and low power consumption.

26.4mm 33.5mm

Magnesium Aluminum Alloy Shell Is Shatter Resistant

K3 is able to withstand 2 meters pole drop onto the cement ground naturally and fully protected against blowing dust.

Energized Battery Increased Working Time

4 hours quick charge is enough to enable K3 a 14 hours of using time.

Other Features

Linux OS	Web UI
410~470MHZ Radio	8G SSD Storage
Bluetooth 4.0+2.1	Mobile Reference Station (WIFI)

WIFI	Electronic Bubble
OTG FIELD DATA DOWNLOAD	NFC

New Case, More Portable

305mm
169mm
370mm
4.9Kg

The light weighted case for K3 is stable and wear resistant.

Data Collector. Simply Trustable

T17N
• Windows Mobile 6.5
• 1Ghz CPU, RAM 512MB
• 1GB ROM, Extendable to 32GB
• 3.7V, 6500mAh removable Li-ion
• 3.7 Inch, 480X640VGA
• WCDMA
• Include EGSTAR3.0

H3PLUS
• Android 6.0
• Quad-core 1.3GHz CPU, 2GB RAM
• 4.3 Inches, WVGA 800X480dpi
• 8 megapixel camera with auto focus
• 6500mAh, up to 10Hours
• Dual SIM Card
• 4G FDD TDD network, 3G WCDMA
• GPS\GLONASS\SBAS\A-GPS
• Include EGSTAR

New app. New Productivity

SurvX Android

Windows CE data controller is too old technology? No problem. Simply download SurvX App on your smart phone or tablet. Enjoy the smooth operation of Android platform !

Seamless Connection
•NFC
•Saving-Time Bluetooth Search
•Auto Connection

Intuitive interactive design
•Reducing mistakenly touching
•User define program menu
•Signal strength graphic display

Rich & Practical Programs
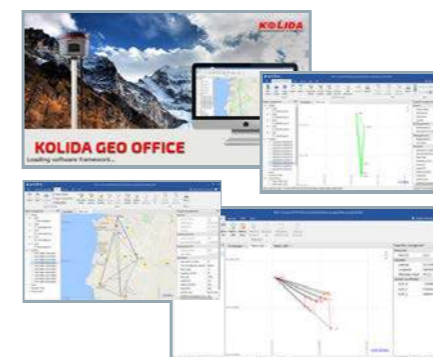•CAD function & Line work
•3D display mode
•Road & Power line program

Creativity
•Saving & Sharing coordinate system by QR code
•Data recovery & Encryption function
•Support Google map and other base map

Post-processing SW. Free of Charge

KOLIDA GEO Office
Integrates static data processing and kinematic data adjustment

Intelligent
•Antenna manager with popular receiver types.
•Fast processing and clear display
•Manually edit and filter satellite data for best result
•Update online.

Versatile
•Compatible with numerous data format.
•Export abundant types of report.
•Transformable to RINEX format