

GNSS solutions at any level

New product launch event

September 27 | 20:00 UTC+8

online event   

Make your work easier and more efficient

ComNav Technology develops and manufactures GNSS OEM boards, Receivers and Solutions for high-precision positioning applications worldwide.



10 years of innovation

K501



K726



K803



K708



K823



K802

Diversified applications



Precision agriculture

Surveying & Mapping

IoT

UAV

CORS

Machine Control



high reliability

high availability

high robustness

K827 GNSS Board

One single board with two RTK engine

Highly compatible

The same size as mainstream boards



Size: 46mm × 71mm × 10mm
Power consumption: 1.8W



2 x 14pin

3 LVTTTL ports

2 SPI

2 Event Marker input

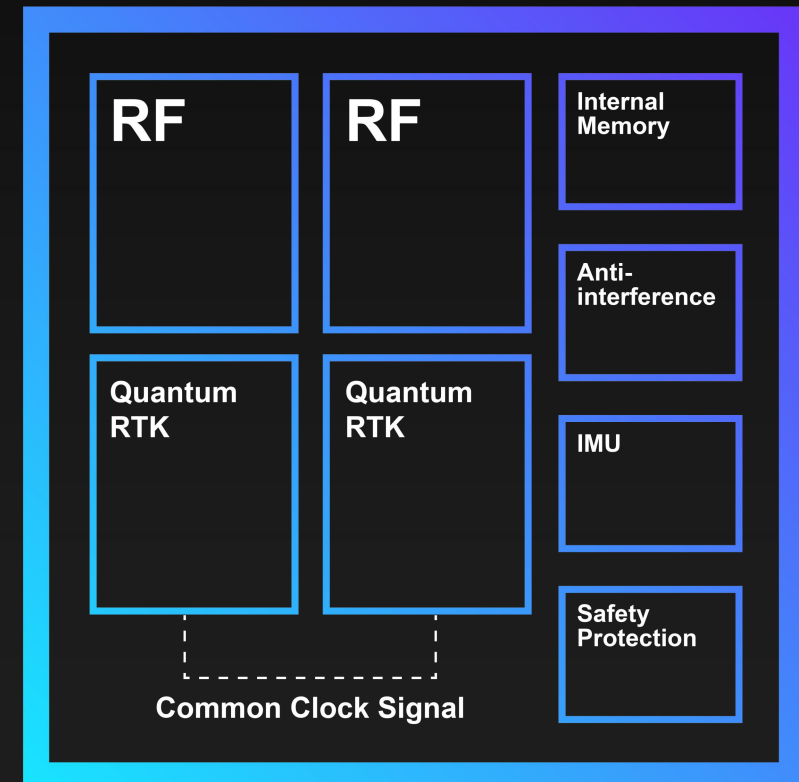
1 PPS

3 indicator pins

Maximum positioning availability

Dual-engine RTK technology

- One board with two independent RTK engines
- Enhanced robustness of system
- Improved availability of the positioning result in complex environment



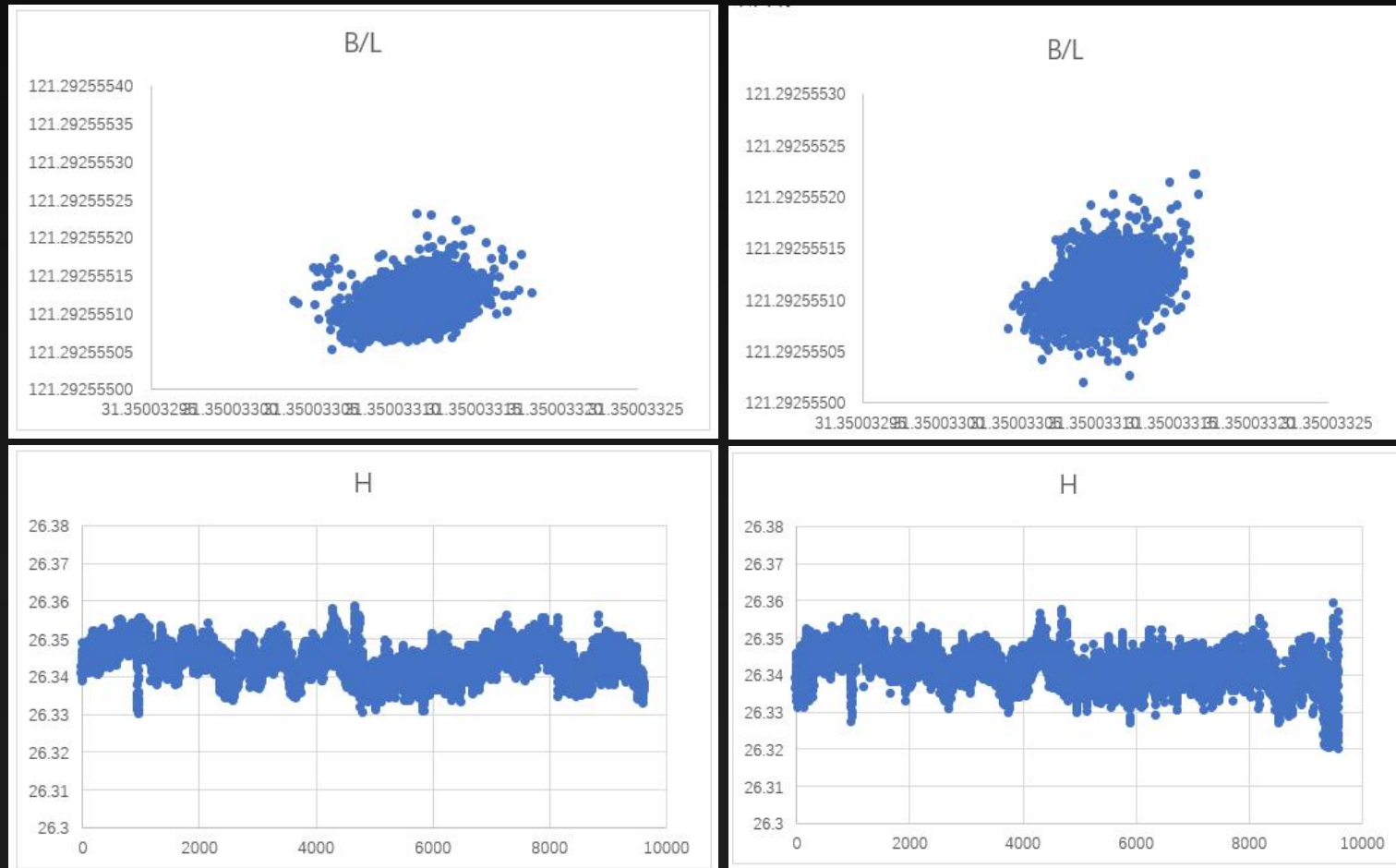
Strong signal tracking capability

Full-constellation Multi-frequency

Positioning	Heading (Positioning 2))
GPS: L1C/A, L1C, L2P, L2C, L5	GPS: L1C/A, L1C, L2P, L2C, L5
BDS-2: B1I, B2I, B3I	BDS-2: B1I, B2I, B3I
BDS-3: B1I, B3I, B1C, B2a, B2b	BDS-3: B1I, B3I, B1C, B2a, B2b
GLONASS: G1, G2, G3*	GLONASS: G1, G2, G3*
Galileo: E1, E5b, E5a, E5 AltBoC*, E6c	Galileo: E1, E5b, E5a, E5 AltBoC*, E6c
QZSS: L1C/A, L2C, L5, L1C*	QZSS: L1C/A, L2C, L5, L1C*
SBAS: L1C/A	SBAS: L1C/A
IRNSS: L5	IRNSS: L5
L-band*	

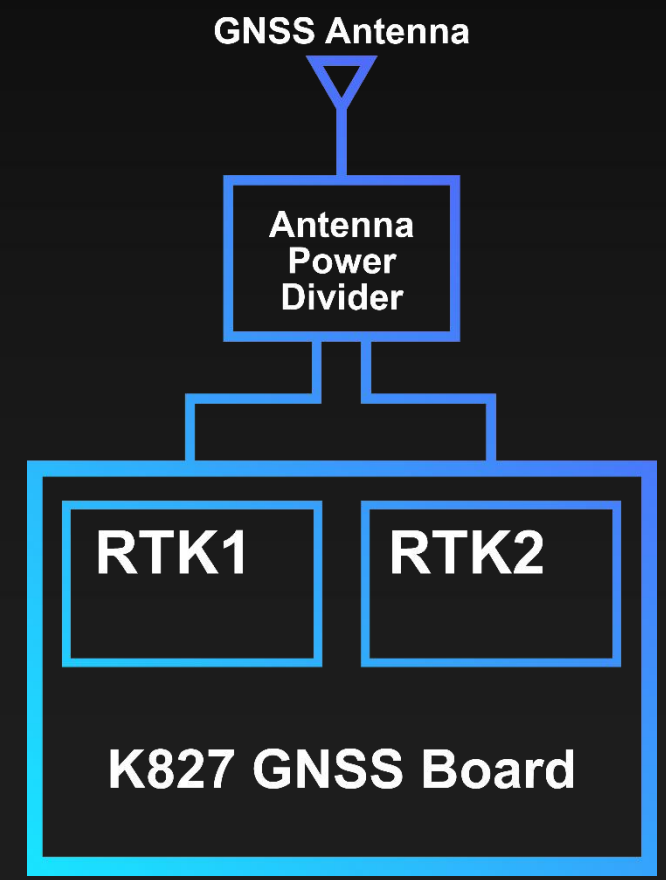
“*” upgradable

Dual-engine RTK performance



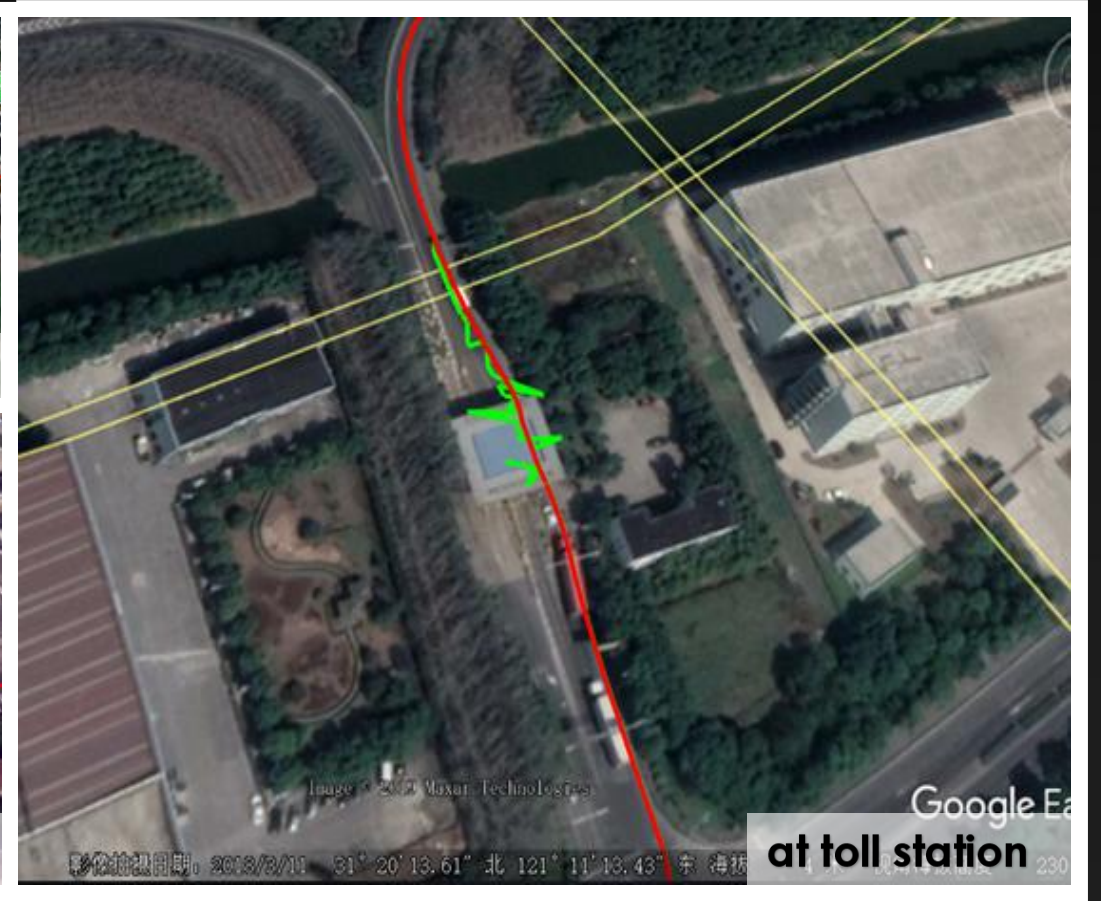
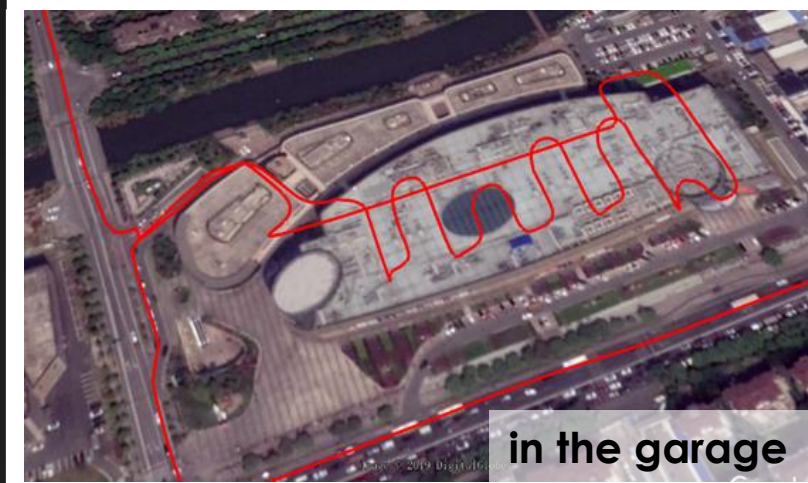
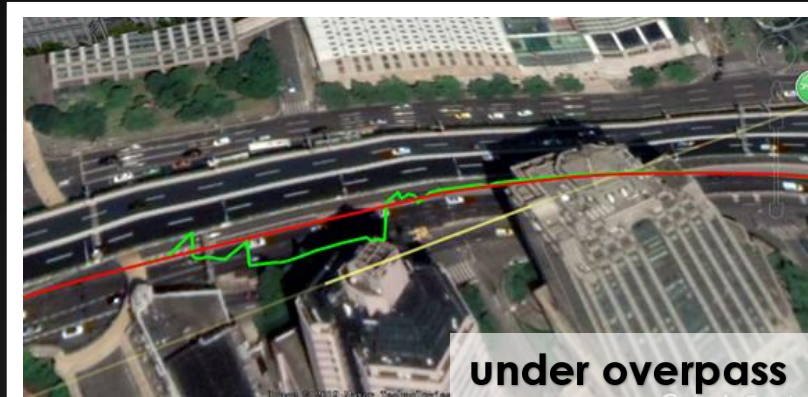
Master

Slave



Continuous positioning during lock-lose

GNSS+INS navigation



Red: IMU enabled
Green: IMU disabled



Targeted applications

Meet the demand for professional areas

- Autonomous driving
- UAV
- Land surveying
- Precision agriculture
- Machine control
- Robotics



high accuracy

small size

low power consumption

K801 GNSS Module

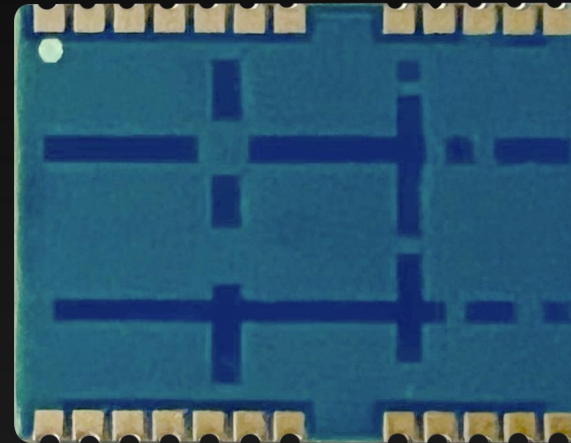
IoT at your fingertips

Highly integrated

Optimized for size-constrained devices



Size: 12mm × 16 mm × 2.4 mm
Power consumption: 0.15W



2 x 12pin

- 2 LVTTTL ports
- 1 SPI
- 1 Event Marker input
- 1 PPS

High reliable positioning accuracy

Dual-band multi-constellation

Positioning

GPS: L1 C/A, L5

BeiDou: B1I, B2a

GALILEO: E1, E5a

GLONASS: G1

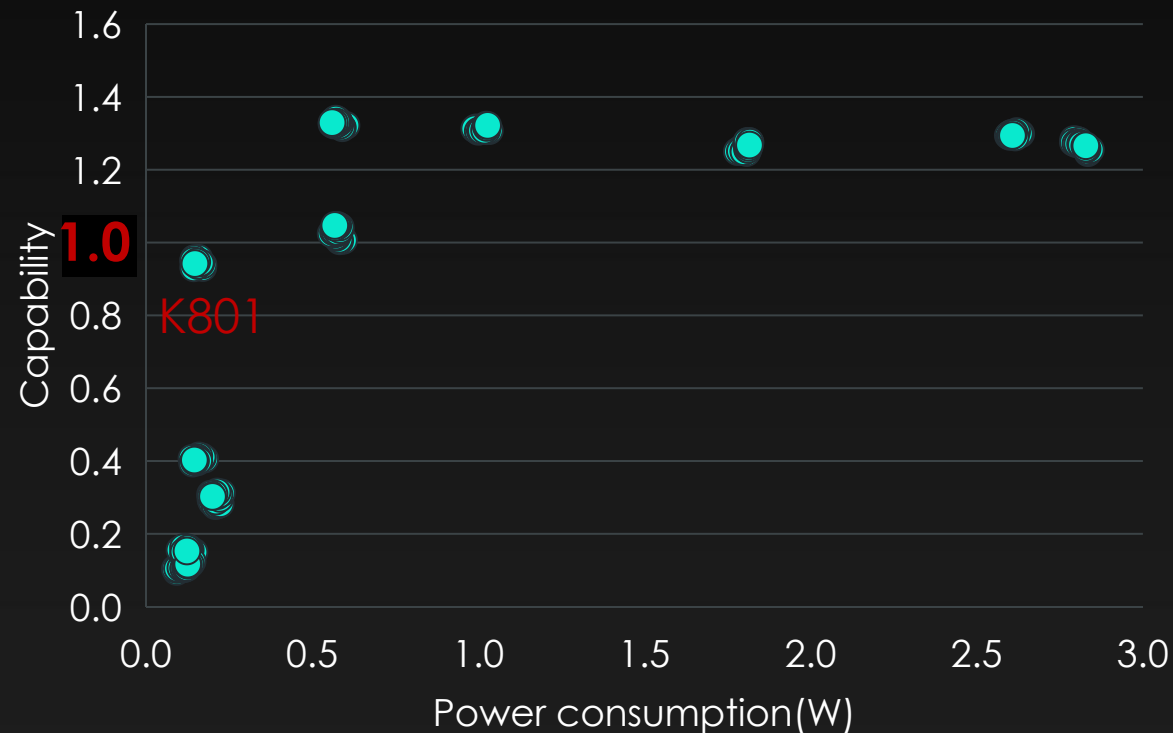
SBAS: WAS, EGNOS, MSAS, GAGAN, SDCM

QZSS: L1 C/A, L5



Tracking satellites:45

Ultra-low power consumption

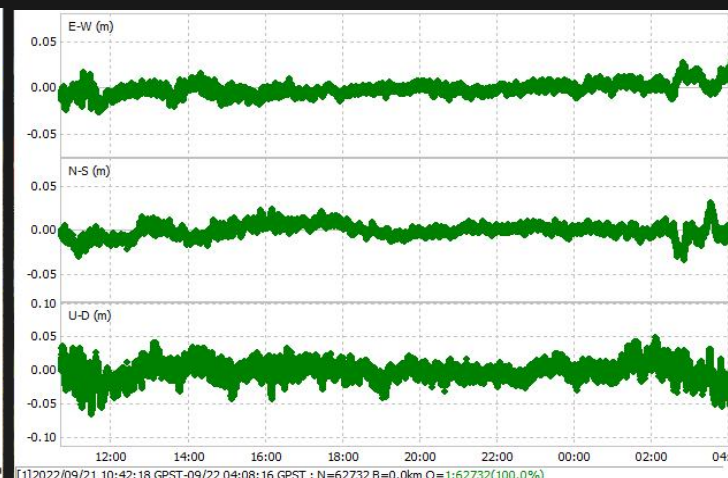
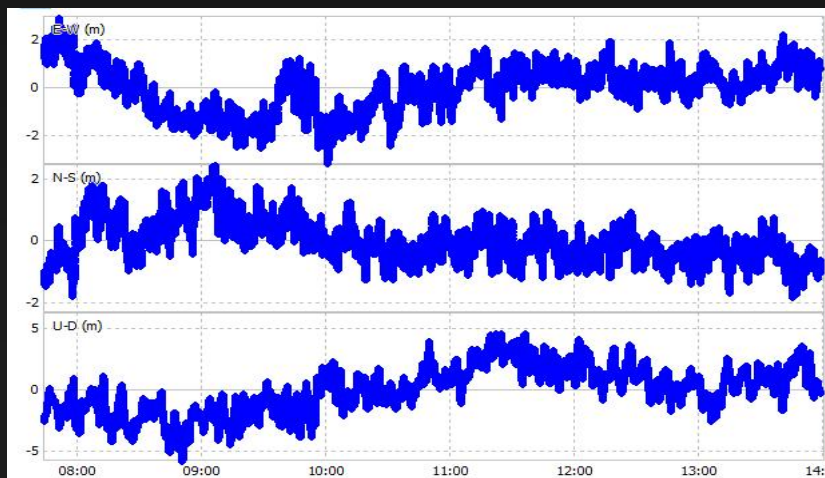
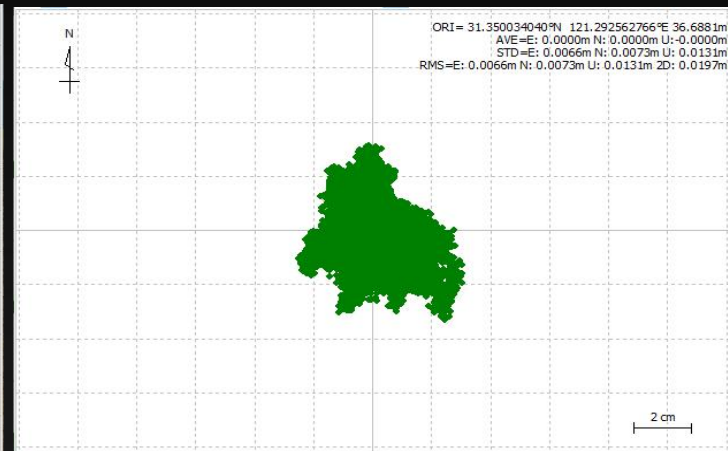
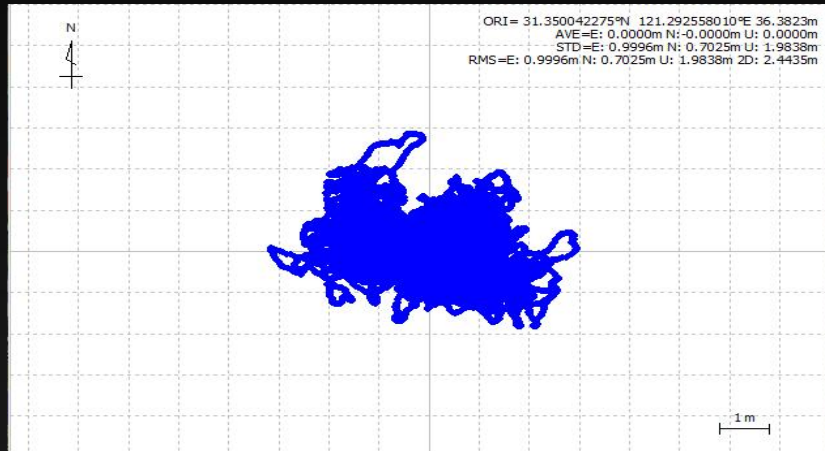


- Low power consumption
- High sensitivity
- Advanced algorithm

*The preceding data are theoretical value based on experimental environments. The actual value may vary in different conditions.

Centimeter & sub-meter level accuracy

Static performance



SBAS Mode: sub-meter

RTK mode: centimeter

Test performance

Dynamic vehicle-Mounted

- K801's dynamic navigation **perform better in harsh environments** such as urban canyon and overpass.
- K801 can **output reliable positioning results** where other modules cannot maintain fixed RTK solutions.



Test performance

Dynamic vehicle-Mounted

under canyon

K801: smooth and continuous path

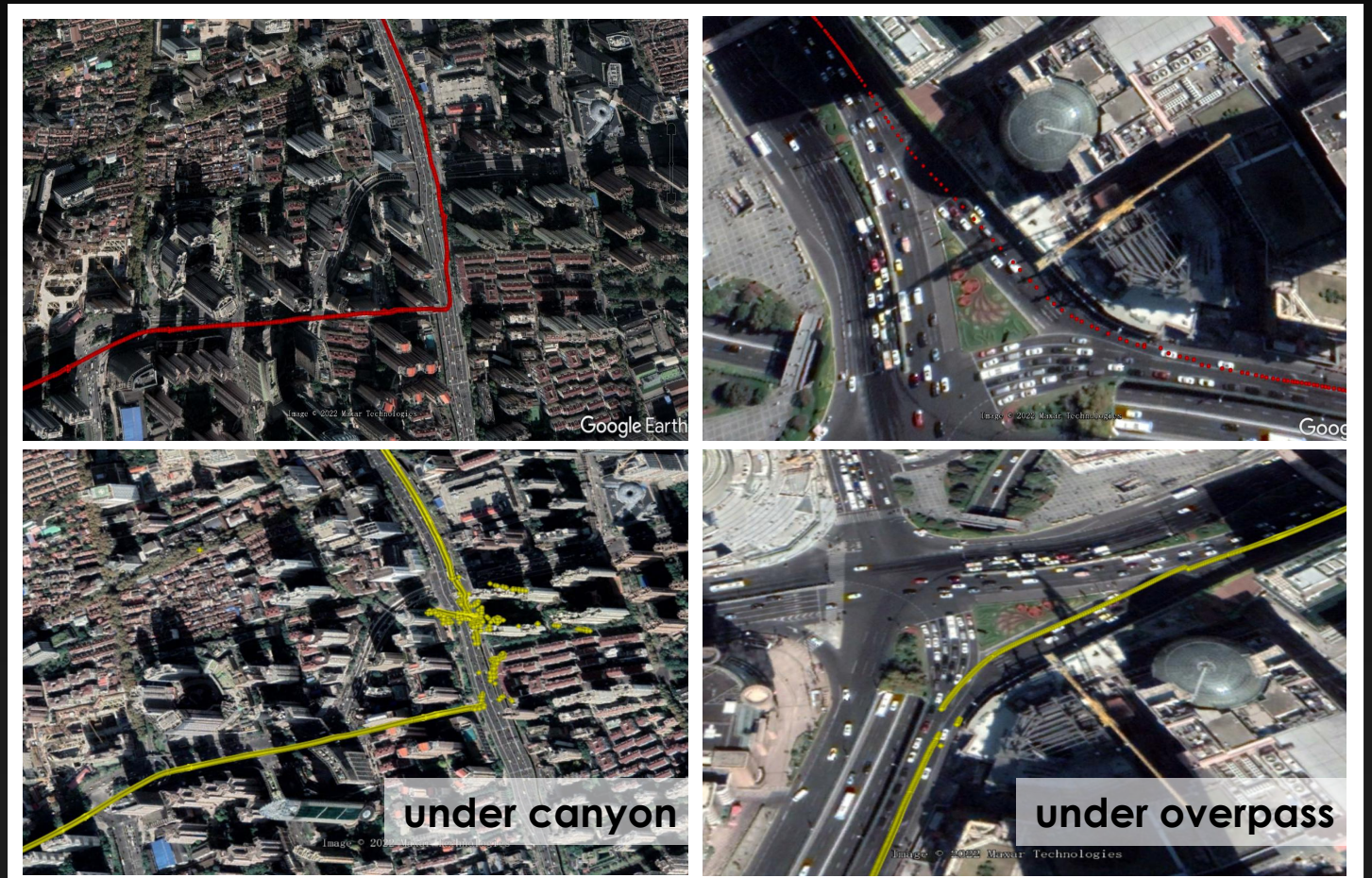
Other: offset

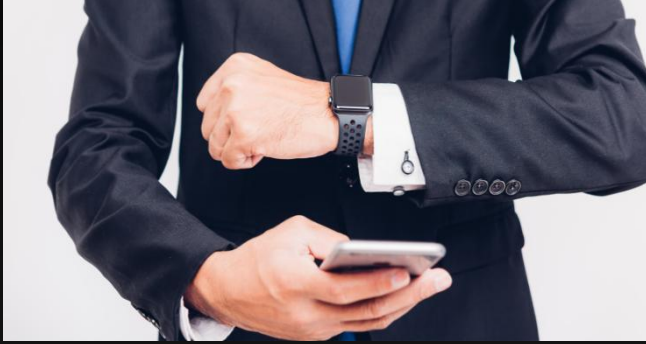
under overpass

K801: reliable

Other: unreliable

Yellow: Other
Red: K801





Targeted applications

Consuming grade market

- Wearable devices
- IoT
- Precision agriculture
- Drones
- Robotics

K8 series comparision

Model	K801	K803	K823	K827
Frequency	Dual-frequency	Triple-frequency	Multi-frequency	Multi-frequency
GPS	L1 C/A, L5	L1, L2, L5	L1, L2	L1C/A, L1C, L2P, L2C, L5
BDS	B1I, B2a	B1, B2, B3	B1I, B3I, B1C*	B1I, B2I, B3I, B1C, B2a, B2b
GLONASS	G1	L1, L2	L1, L2	G1, G2, G3
Galileo	E1, E5a	E1, E5a, E5b	E1, E5b	E1, E5b, E5a, E5 AltBoC*, E6c
QZSS	L1 C/A, L5	L1	L1, L2*	L1C/A, L2C, L5, L1C*
IRNSS	-	L5	-	L5
SBAS	L1	L1, L5	L1	L1C/A
L-Band	-	+	+	+
Power Consumption(W)	0.15	1W	1.6	1.8
Onboard IMU	Support	Support	Support	Support

"-" do not support "*" upgradable "+" conditional support

THANKS FOR ATTENDING

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