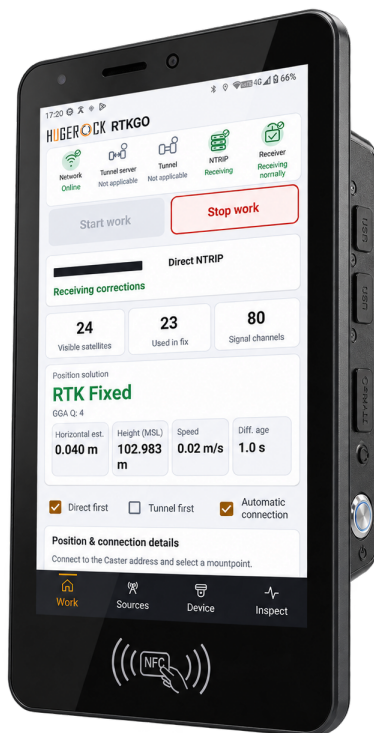


VEHICLE-MOUNTED RTK TERMINAL

GK101M

Positioning and heading for vehicle integration.

An externally powered Android RTK terminal with UM982 GNSS and industrial interfaces for project-specific vehicle integration.



RTKGO running interface / product illustration

Integrate vehicle power

External DC 9-24 V; no built-in battery

Position and heading

UM982; dual-antenna heading support

Connect industrial systems

RS232 / RS485 / RJ45 / USB interfaces

Typical applications

01

Vehicle positioning

Integrate position data into a compatible vehicle application.

02

Heading integration

Evaluate dual-antenna heading for project-specific orientation tasks.

03

Machine interfaces

Connect compatible control or data systems through industrial ports.

Power the terminal. Connect antennas. Integrate position data.

External DC supply / Project-specific correction access / Compatible vehicle software

Application examples describe integration tasks, not a certified guidance or control system. Confirm antenna baseline, software interfaces, vehicle mounting and electrical compatibility.

MODEL CONFIGURATION: GK101M

GK101M

Technical specifications

GNSS positioning

Receiver / update	UM982; NebulasIV; 1408 channels; 20 Hz observation / positioning
Tracking signals	BDS B1I/B2I/B3I; GPS L1C/A/L2P(Y)/L2C/L5; Galileo E1/E5a/E5b; GLONASS L1/L2; QZSS L1/L2/L5
RTK accuracy (RMS)	Plane: 0.8 cm + 1 ppm; elevation: 1.5 cm + 1 ppm
Heading accuracy (RMS)	0.1° at a 1 m antenna baseline; dual-antenna configuration required
Correction / output	RTCM v3.3 / 3.2 / 3.1 / 3.0; NMEA 0183 / Unicore
RTK initialization	<5 s typical; >99.9% initialization reliability
Measurement antennas	HG-BA800; diameter 132 × 55.14 mm; ≤350 g per antenna. Specify the dual-antenna installation for heading.

Platform, interfaces & environment

Compute / memory	Cortex-A73 octa-core, 2.0 GHz; Mali-G72 MP3; 8 GB / 128 GB
Display / camera	10.1-inch IPS/AFFS; 1200 × 1920; 1000 nits; 5 MP sub camera
External power	DC 9-24 V input; no built-in battery; microSD up to 256 GB
Communications	4G LTE; dual-band Wi-Fi 802.11 a/b/g/n/ac; Bluetooth 5.0 LE
Interfaces	USB Type-A host ×2; Type-C; RS232; RS485; RJ45; dual nano-SIM; microSD; 3.5 mm audio; NFC; LoRa 433 MHz
Dimensions / weight	300 × 166 × 34 mm; 880 g
Protection	IP66; touch panel IK05; MIL-STD-810G Method 516.6 Proc. IV
Temperature	Operating -30°C to +70°C; storage -40°C to +80°C
OS / warranty	Android 9 / 10 / 11 / 13 options; OS version agreed at order. 24 months device warranty.

Heading accuracy requires the stated antenna baseline. Electrical input and adapter ratings are not measured device power consumption. Confirm software, antenna installation and vehicle integration.

Quotation on request. Confirm regional radios, software interfaces, operating system and supplied accessories.