

# Specifications

|                         |   |  |
|-------------------------|---|--|
| MEASUREMENTS            | GPS   | L1, L2, L5   |
|                         | GLONASS                                       | L1, L2   |
|                         | BDS   | B1, B2, B3   |
|                         | GALIEO  | E1, E5a, E5b   |
|                         | QZSS  | L1, L2, L5   |
|                         | SBAS  | L1   |
|                         | Data format                                   | NMEA-0183  |
|                         | Differential format                           | RTCM 2.X, RTCM3.X                                      |
|                         | Positioning rates                             | MAX 20Hz   |
|                         | Re-acquisition time                           | <1s  |
| POSITIONING             | Cold start                                    | <40s   |
|                         | Autonomous                                    | Horizontal: 1.5m Vertical: 3.0m                        |
|                         | DGPS  | Horizontal: 0.4m Vertical: 0.8m                        |
|                         | Static  | Horizontal: 2.5mm + 0.1 ppm                            |
|                         |   | Vertical: 5mm + 0.1 ppm                                |
|                         | Speed   | 0.03m/s  |
|                         | RTK   | Horizontal: 8mm + 1 ppm                                |
| Vertical: 15 mm + 1 ppm |   |  |
| DATA STORAGE            | Time  | 20ns   |
|                         | Storage                                       | 8GB; Support TF card expansion up to 32GB              |
|                         | Differential                                  | RTCM2.3, RTCM3.X, RTCM3.2, CMR, CMR+                   |
|                         | Data security                                 | Multi channel to store and backup RTK measurement data |
| COMMUNICATION           | Bluetooth                                     | V4.2 dual mode (BT/BLE)                                |
|                         | E-bubble                                      | Support  |
|                         | IMU   | Up to 60°  |
|                         | GSM   | LTE-TDD/FDD/TD-SCDMA/UMTS/EVDO/CDMA1x/GSM              |
|                         | WIFI  | 802.11 b/g/n   |
|                         |   | External radio: 5W/35W Switchable                      |
|                         |   | Internal radio: 0.5W/1W Switchable                     |
| UHF                     | Frequency: 410-470MHz                         |  |
|                         | Protocol: TrimTalk, TrimMark3, SOUTH, PCC-EOT |  |
| BATTERY                 | Capacity                                      | 7.4V, 9750mAh  |
|                         | Battery life                                  | Typically >15h   |
| ENVIRONMENTAL           | Operating temp                                | -20°C~+70°C  |
|                         | Storage temp                                  | -40°C~+85°C  |
|                         | Humidity                                      | 100%   |
|                         | Shockproof                                    | Survive a 2m pole drop onto concrete                   |
|                         | Ingress protection                            | IP67   |
| PHYSICAL                | Material                                      | Magnesium alloy housing + ABS/PC top cover             |
|                         | Dimension                                     | Ø15.6*10.2cm   |
|                         | Interface                                     | 4 LED indicators, 2 buttons, i-voice                   |
| ACCESSORIES             | M9 GNSS receiver                              | 1X   |
|                         | Power adapter                                 | 1X   |
|                         | 7pin cable                                    | 1X   |
|                         | Radio antenna                                 | 1X   |

This information is for reference only, and the product parameters will be modified without notice due to product upgrades, please understand!

## LATEST GENERATION, MOST ATTRACTION

# KQ M9

*IMU Free Calibration/WEB UI support  
Solid and durable quality in affordable cost.  
Surpad 4.2 support*





# Applications

Power Systems



Forestry System



Agricultural System



Building System



Water System



Traffic System



Land Resources



Engineering Survey

