



KQ300 Controller



# M8mini+

- New Generation Tilt IMU Survey, No calibration
  - 2 Watt RX/TX internal radio integrated, reach to 5--6KM
  - Supports GPS, GLONASS, GALIEO, BDS, SBAS
  - Fieldpro data collection software
  - Dual power supply, 23 hours for static while 16 hours for RTK
-



# Technical Specification

## System Configuration

OS.....Linux  
 Processor.....New high performance Cortex 400MHX processor  
 Memory.....8GB Optional 16GB/32GB

## GNSS technical specificatio

Motherboard type.....Compatible with multifrequency multi-satellite motherboards, BD970, NovAtel 729.

## Tracking 555 channels (OEM729)

GPS.....L1 C/A,L1C,L2C,L2P,L5  
 GLONASS.....L1 C/A,L2C,L2P,L3,L5  
 BeiDou.....B1,B2,B3  
 Galileo.....E1,E5 AltBOC, E5a,E5b,E6  
 IRNSS..... L5  
 SBAS..... L1,L5  
 QZSS.....L1 C/A,L1C,L2C,L5,L6  
 L-Band

## Positioning accuracy

RTK  
 horizontal..... $\pm(8\text{mm} + 1 \times 10^{-6}\text{D})$   
 vertical..... $\pm(15\text{mm} + 1 \times 10^{-6}\text{D})$

### Static

horizontal..... $\pm(2.5\text{mm} + 1 \times 10^{-6}\text{D})$   
 vertical..... $\pm(5\text{mm} + 1 \times 10^{-6}\text{D})$

Output rate.....1HZ in default,support up to 20HZ

## Communication specification

Bluetooth.....Dual-mode Bluetooth 4.0,compatible with Bluetooth2.1,2.4GHz  
 Radio.....2Watt internal module. EOT, TT450 ect.  
 NFC

## Port allocation

LED indicator.....Power LED,satellites LED, communication LED  
 keys.....Power kerx1,function keyx1  
 I/O Interface.....Power port×1,USB,RS232 serial , debug port

## Power supply

Battery.....11.1v/3,400mAh

## Physical specification

Size.....80mm\*130mm  
 Weight.....790g

## Working circumstance

Working Temperature.....-45°C~+65°C  
 Storage Temperature.....-55°C~+85°C  
 Water/dust proof.....IP67

