

# Q700 Product Specification

<b>GNSS ①</b>		Bottom Sensor Resolution 1920*1080
Satellite system		<b>Physical</b>
GPS L1C, L1C/A, L2P, L2C, L5		Size $\Phi 143 \text{ mm} \times 82 \text{ mm}$ (with bottom nuts)
BDS B1I, B1C, B2a, B2b, B2I, B3I		Material Magnesium aluminum alloy
GLONASS L1C/A, L2C/A		Ports 1 Type-C, 1 TNC, 1 SIM
Galileo E1C/A, E5a, E5b, E5AltBoC, E6C		<b>Electrical</b>
QZSS L1C, L1C/A, L2C, L5		Battery 3.6V 13600mAh lithium-ion battery
SBAS L1C/A, L5		Battery life Internal Radio/ 4G RTK Rover: up to 14 h Lora RTK Base: up to 8 h Static: up to 15 h
IRNSS L5		External power supply 5V DC
MSS L-Band QXWZ XStar		<b>Environmental</b>
Channels 1520		Operating temperature $-40^\circ\text{C} \sim +65^\circ\text{C}$
Static accuracy Horizontal: $\pm (2.5+0.5 \times 10^{-6}D)$ mm Vertical: $\pm (5+0.5 \times 10^{-6}D)$ mm		Storage temperature $-45^\circ\text{C} \sim +70^\circ\text{C}$
RTK accuracy Horizontal: $\pm (8+1 \times 10^{-6}D)$ mm Vertical: $\pm (15+1 \times 10^{-6}D)$ mm		Waterproof and dustproof IP68
XStar accuracy Horizontal: $\pm 2.5\text{cm}$ Vertical: $\pm 10\text{cm}$		Fall-resistance Resistant to fall from a height of 2m
Initialization reliability 99.9%		<b>Handheld Data Controller</b>
<b>Spatix Service ②</b>		Operating System Android 9
NOSR Time initialization < 5s		CPU 8-core 2.0 GHz processor
NSSR Time initialization < 6min		Memory 3GB RAM + 32GB ROM
LSSR L-band, Time initialization < 8min		Network 4G Full Netcom
<b>Wireless Communication</b>		
Bluetooth/Wi-Fi Supported		LCD 5-inch multi-touch capacitive screen
Radio mode Built-in Rx/Tx radio		Battery 5200 mAh removable battery
Radio type Lora		Camera 13 Million Auto Focus Camera
Radio frequency band 410 MHz - 470 MHz		Waterproof and dustproof IP67
Radio protocol Satel/PCC-4FSK/PCC-GMSK/TrimTalk-450s/ South-9600/HITARGET-9600/ HATARGET=19200/TrimMark-III/ South-19200/TrimTalk-4800/GEOTALK/ GEOMARK/HZS2/Satel-ADL/PCCFST/ PCCFST-ADL/PCCET_SATEL/LORALINK/ LORA-TRANSPARENT		① Measurements were obtained in an open area with satisfactory distribution of satellites and inactive ionosphere and without radio interference, in strict compliance with the observation and data processing procedures for this kind of devices.
Number of Lenses Supported		② For coverage of service, please visit our official website. You may choose the available term of service when purchasing the product.
<b>GNSS + IMU ③</b>		
Tilt slope 0~60°		③ Strong vibration may affect the accuracy of IMU.
Tilt compensation accuracy 8mm+0.3mm/°tilt (accuracy < 2 cm within 30°)		
IMU Rate 200Hz		
<b>User Interaction</b>		
Operating System Linux		<b>K3M Geoequips Pvt Ltd</b>
Buttons Power switch		Shop No. B-4, Ratan Neptune, Sr. No. 56, Nr. JSPM College, Hadapsar, Pune 411028 Maharashtra India Mob No 9762226305
Indicators Battery, satellite/signal integrated		
Web UI Support PC and mobile web pages		
<b>Image Stakeout</b>		
Stakeout Accuracy $10\text{mm}+(10\text{mm}/\text{m}) * \text{Distance}(\text{m})$		
Bottom Lens Field of View 83.4°		
Bottom Sensor Pixels 200W		
Bottom Camera Focal Length 2m		