

Qianxun Q800 Product Specification

GNSS①		Physical	
<p>Satellite system</p> <p>GPS L1C, L1C/A, L2P, L2C, L5 BDS B1I, B1C, B2a, B2b, B2I, B3I GLONASS L1C/A, L2C/A Galileo E1C/A, E5a, E5b, E5AltBoC, E6C QZSS L1C, L1C/A, L2C, L5 SBAS L1C/A, L5 IRNSS L5 MSS L-Band Channels QXWZ XStar 1520</p>		<p>Front Camera Focal Length 5m</p> <p>Front Sensor Resolution 1920*1080</p> <p>Bottom Lens Field of View 83.4°</p> <p>Bottom Sensor Pixels 200W</p> <p>Bottom Camera Focal Length 2m</p> <p>Bottom Sensor Resolution 1920*1080</p>	
<p>Static accuracy</p> <p>Horizontal: $\pm (2.5+0.5 \times 10^{-6}D)$mm Vertical: $\pm (5+0.5 \times 10^{-6}D)$mm</p>		<p>Size $\Phi 143 \text{ mm} \times 82 \text{ mm}$ (with bottom nuts)</p>	
<p>RTK accuracy</p> <p>Horizontal: $\pm (8+1 \times 10^{-6}D)$mm Vertical: $\pm (15+1 \times 10^{-6}D)$mm</p>		<p>Material Magnesium aluminum alloy</p>	
<p>XStar accuracy</p> <p>Horizontal: $\pm 2.5\text{cm}$ Vertical: $\pm 10\text{cm}$</p>		<p>Ports 1 Type-C, 1 TNC, 1 SIM</p>	
<p>Initialization reliability 99.9%</p>		Electrical	
Spatix Service②		<p>Battery 3.6V 13600mAh lithium-ion battery</p>	
<p>NOSR Time initialization < 5s</p>		<p>Battery life Internal Radio/ 4G RTK Rover: up to 14 h Lora RTK Base: up to 8 h Static: up to 15 h</p>	
<p>NSSR Time initialization < 6min</p>		<p>External power supply 5V DC</p>	
<p>LSSR L-band, Time initialization < 8min</p>		Environmental	
Wireless Communication			
<p>Bluetooth/Wi-Fi Supported</p>		<p>Operating temperature -40°C~ +65°C</p>	
<p>Radio mode Built-in Rx/Tx radio</p>		<p>Storage temperature -45°C~ +70°C</p>	
<p>Radio type Lora</p>		<p>Waterproof and dustproof IP68</p>	
<p>Radio frequency band 410 MHz - 470 MHz</p>		<p>Fall-resistance Resistant to fall from a height of 2m</p>	
<p>Radio protocol Satel/PCC-4FSK/PCC-GMSK/TrimTalk-450s/ South-9600/HITARGET-9600/ HATARGET=19200/TrimMark-III/ South-19200/TrimTalk-4800/GEOTALK/ GEOMARK/HZSZ/Satel-ADL/PCCFST/ PCCFST-ADL/PCCEOT_SATEL/LORALINK/ LORA-TRANSPARENT</p>		Handheld Data Controller	
<p>Number of Lenses Supported</p>		<p>Operating System Android 9</p>	
GNSS + IMU③		<p>CPU 8-core 2.0 GHz processor</p>	
<p>Tilt slope 0~60°</p>		<p>Memory 3GB RAM + 32GB ROM</p>	
<p>Tilt compensation accuracy 8mm+0.3mm/$^{\circ}$tilt (accuracy < 2 cm within 30°)</p>		<p>Network 4G Full Netcom</p>	
<p>IMU Rate 200Hz</p>		<p>LCD 5-inch multi-touch capacitive screen</p>	
User Interaction		<p>Battery 5200 mAh removable battery</p>	
<p>Operating System Linux</p>		<p>Camera 13 Million Auto Focus Camera</p>	
<p>Buttons Power switch</p>		<p>Waterproof and dustproof IP67</p>	
<p>Indicators Battery, satellite/signal integrated</p>		Image Stakeout	
<p>Web UI Support PC and mobile web pages</p>		<p>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.</p>	
<p>Number of Lenses 2</p>		<p>② For coverage of service, please visit our official website. You may choose the available term of service when purchasing the product.</p>	
<p>Stakeout Accuracy $10\text{mm}+(10\text{mm}/\text{m}) * \text{Distance}(\text{m})$</p>		<p>③ Strong vibration may affect the accuracy of IMU.</p>	
<p>Front Lens Field of View 83.4°</p>		K3M Geoequips Pvt Ltd	
<p>Front Sensor Pixel 200W</p>		<p>Shop No. B-4, Ratan Neptune, Sr. No. 56, Nr. JSPM College, Hadapsar, Pune 411028 Maharashtra India Mob No 9762226305</p>	