

Qianxun Q800 Product Specification

GNSS①		Front Camera Focal Length	
Satellite system	GPS 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	Front Sensor Resolution	1920*1080
Static accuracy	Horizontal: $\pm (2.5+0.5 \times 10^{-6}D)$ mm Vertical: $\pm (5+0.5 \times 10^{-6}D)$ mm	Bottom Lens Field of View	83.4°
RTK accuracy	Horizontal: $\pm (8+1 \times 10^{-6}D)$ mm Vertical: $\pm (15+1 \times 10^{-6}D)$ mm	Bottom Sensor Pixels	200W
XStar accuracy	Horizontal: ± 2.5 cm Vertical: ± 10 cm	Bottom Camera Focal Length	2m
Initialization reliability	99.9%	Bottom Sensor Resolution	1920*1080
Spatix Service②		Physical	
NOSR	Time initialization < 5s	Size	Φ143 mm × 82 mm (with bottom nuts)
NSSR	Time initialization < 6min	Material	Magnesium aluminum alloy
LSSR	L-band, Time initialization < 8min	Ports	1 Type-C, 1 TNC, 1 SIM
Wireless Communication		Electrical	
Bluetooth/Wi-Fi	Supported	Battery	3.6V 13600mAh lithium-ion battery
Radio mode	Built-in Rx/Tx radio	Battery life	Internal Radio/ 4G RTK Rover: up to 14 h Lora RTK Base: up to 8 h Static: up to 15 h
Radio type	Lora	External power supply	5V DC
Radio frequency band	410 MHz ~ 470 MHz	Environmental	
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	Operating temperature	-40°C~ +65°C
Number of Lenses	Supported	Storage temperature	-45°C~ +70°C
GNSS + IMU③		Waterproof and dustproof	IP68
Tilt slope	0~60°	Fall-resistance	Resistant to fall from a height of 2m
Tilt compensation accuracy	8mm+0.3mm/*tilt (accuracy < 2 cm within 30°)	Handheld Data Controller	
IMU Rate	200Hz	Operating System	Android 9
User Interaction		CPU	8-core 2.0 GHz processor
Operating System	Linux	Memory	3GB RAM + 32GB ROM
Buttons	Power switch	Network	4G Full Netcom
Indicators	Battery, satellite/signal integrated	LCD	5-inch multi-touch capacitive screen
Web UI	Support PC and mobile web pages	Battery	5200 mAh removable battery
Image Stakeout		Camera	13 Million Auto Focus Camera
Number of Lenses	2	Waterproof and dustproof	IP67
Stakeout Accuracy	10mm+(10mm/m) *Distance(m)	<div>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.</div> <div>② For coverage of service, please visit our official website. You may choose the available term of service when purchasing the product.</div> <div>③ Strong vibration may affect the accuracy of IMU.</div>	
Front Lens Field of View	83.4°		
Front Sensor Pixel	200W		

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