660 Technical Specification

Single Beidou (Taidou B303-5Q)

GNSS Performance	
Tracking Frequency Point	BDS： B1I/B1C
Data update frequency	Typical value: 1Hz　　Maximum value: 20Hz
RTK initialization time	＜5s(D＜10km)
Speed measurement accuracy	⩽0.1m/s
Time taken for first positioning	Cold start: ⩽28s, Hot start: 1s, Re-capture: 1s
RTK accuracy	**H: ± (8+ 10-6× D) mm V: ± (15+ 10-6 × D) mm**
Positioning accuracy	**H<2m, V<3m**
Data Format	NMEA 0183
Physical Specifications	
Volume	70×143×36mm
Screen Size	3.2 inches
Screen resolution	240*320
Weight	271 grams
Shell material	ABS
Battery Capacity	5000mAh Lithium Battery
sensor	Electronic compass, accelerometer, barometer, thermometer
External Interface	Type-C
Protection Class	IP65
Performance Specifications	
Endurance Time	12H
Memory Card	TF card, up to 128G, FAT32 file system
Bluetooth	Supports Bluetooth 5.0, supports profiles such as SPP, BLE, and HID
Network Communicatio n	4G/WIFI

Operating System	Linux Qt
System Language	Chinese/English/Korean
Operating Environment	
Operating Temperature	-20°C ~ 70°C
Storage Temperature	-20°C ~ 70°C
Waterproof/ Dustproof	The device can completely prevent dust from entering; low-pressure jetting at any angle has no impact on the device

Dual Frequency

GNSS Performance	
Tracking Frequency Point	GPS/QZSS: L1C/A,L5 ； BeiDou : B1I/B2aGALILEO: E1/E5a ； GLONASS: G1（选配）
Data update frequency	1Hz/5Hz
RTK initialization time	＜5s(D＜10km)
Speed measurement accuracy	≤0.02m/s
Time taken for first positioning	Cold start: ≤24s
RTK accuracy	**H: ± (8+ 10-6× D) mm V: ± (15+ 10-6 × D) mm**
Standard single-point positioning accuracy	**H≤1.5m, V≤3m (1σ, PDOP≤4)**
Data Format	NMEA 0183
Physical Specifications	
Volume	70×143×36mm
Screen Size	3.2 inches
Screen resolution	240*320
Weight	271 grams
Shell material	ABS
Battery Capacity	5000mAh Lithium Battery
sensor	Electronic compass, accelerometer, barometer, thermometer
External Interface	Type-C
Protection Class	IP65
Performance Specifications	
Endurance Time	12H
Supported differential methods	NTRIP

Memory Card	TF card, up to 128G, FAT32 file system
Bluetooth	Supports Bluetooth 5.0, supports profiles such as SPP, BLE, and HID
Network Communication	4G/WIFI
Operating System	Linux Qt
System Language	Chinese/English/Korean
Operating Environment	
Operating Temperature	-20°C ~ 70°C
Storage Temperature	-20°C ~ 70°C
Waterproof/ Dustproof	The device can completely prevent dust from entering; low-pressure jetting at any angle has no impact on the device



Full Frequency

GNSS Performance	
Tracking Frequency Point	BDS: B1I,B2I,B3I,B1C,B2a,B2b; GPS: L1C/A,L1C,L2P (Y),L2C,L5; GLONASS: G1,G2,G3; Galileo: E1,E5a,E5b,E6; QZSS: L1C/A,L1C,L2C,L5; NavIC:L5; SBAS:L1C/A;
RTK accuracy	Horizontal accuracy: 0.8 cm + 1 ppm; Elevation accuracy: 1.5 cm + 1 ppm
Time Accuracy	20ns
Speed measurement accuracy	0.03 m/s
Time taken for first positioning	Cold start: < 12 s
Initialization Time	< 5 s (Typical Value)
Initialization Reliability	> 99.9%
Data Format	NMEA 0183； Unicore
Physical Specifications	
Volume	70×143×36mm
Screen Size	3.2 inches
Screen resolution	240*320
Weight	251 grams
Shell material	ABS
Battery and Endurance	5000mAh lithium battery, 12 hours (minimum backlight)
sensor	Electronic compass, accelerometer, barometer, thermometer
Interface and Function	Type-C, charging, USB flash drive, virtual serial port
Protection Class	IP65
Interface for the center pole back clip	Yes, it has the standard 1/4-inch - 20 interface for camera tripods
Performance Specifications	
Measurement Function	Analysis of enclosed area, dot area, curve length, straight line length, and terrain elevation difference

Data Rec	
Coordina Format	
Storage	
Bluetoot	
Network Commur on	
Operatin System	
System Languag	
Operatin Tempera	
Storage Tempera	
Humidity	
Vibratior Shock	
Waterpro ability	

