

S650/660

Portable GNSS Receiver



- 220 channels
- GPS+GLONASS+BDS tracking
- Support all kinds of operating system for PDA
- 6800mAh super capacity of battery
- 10cmX10cmX3.5cm dimension, lightweight and compact



South S650/660 gnss receiver, adopts market-proven Pacific Crest Maxwell 6 technology (BD910/BD930 OEM board), 220 channels and unmatched gnss multi-constellation tracking performance, makes effective use of GPS and GLONASS signal for outstanding satellite coverage and high precise positioning.



With the dimension of 10cm×10cm×3.5cm, very lightweight, compact and rugged design, S650 and S660 are the most cost-effective gnss receiver. In this box, equipped with dual mode for Bluetooth V2.1 and Bluetooth V4.0, ensure the unit communicates cable-free with Bluetooth to your PDA terminal. What's more, this unit is able to work as an on-board equipment, greatly improve the working efficiency and the flexibility.



In addition, S650 and S660 enable to use a variety of PDA mobile terminal with all kinds of operating system, such as **Andriod, IOS, WIN7/WIN8**, even more Windows mobile. Cellphone, tablet are the best choice data collectors to work with S650 and S660 to connect to network, improve flexibility for fieldwork. In combination with communication module of mobiles, S650 and S660 get a faster way to obtain correction from CORS network.

South S650 technical specification	
GNSS	
Channels	220
GPS	L1 C/A with carrier phase smoothing
GLONASS	L1 C/A
BDS	B1
Galileo	E1
QZSS	L1 C/A, L1 SAIF
SBAS	L1 C/A
Data Output	NMEA-0183, TSIP
I/O Protocol	RTCM
Update Rate	1Hz
Reacquisition	<1s
Cold Start	<30s
Accuracy	
Single point positioning	2.5m
SBAS	Horizontal: 0.5m Vertical: 0.85m
DGNSS	Horizontal: 0.25m+1ppm Vertical: 0.50m+1ppm
Communication	
Data Interface	Mini USB2.0
Bluetooth	Dual mode, Bluetooth V2.1/ Bluetooth V4.0, support EDR
Electrical	
Battery	6800mAh, Li-ion battery built in, 3.7V
Battery life	Typically 12 hrs or more
Environmental	
Operating temperature	-20℃~+60℃
Storage temperature	-30℃~+70℃
Shockproof	Withstand drop from 1.5m to concrete
Waterproof/Dustproof	Test to IP67 standard
Physical	
Dimensions(mm)	100(L)×100(W)×35(H)
Weight	380 g

South S660 technical specification	
GNSS	
Channels	220
GPS	L1 C/A, L2E, L2C, L5, with carrier phase smoothing
GLONASS	L1 C/A, L2 C/A
BDS	B1, B2
Galileo	E1, E5A, E5B, E5AltBOC
QZSS	L1 C/A, L1 SAIF, L2C, L5
SBAS	L1 C/A, L5
Data Output	NMEA-0183, TSIP
I/O Protocol	RTCM, RTCA, CMR
Update Rate	1Hz
Reacquisition	<1s
Cold Start	<30s
Accuracy	
Single point positioning	2m
SBAS	Horizontal: 0.5m Vertical: 0.85m
DGNSS	Horizontal: 0.25m+1ppm Vertical: 0.50m+1ppm
Single Baseline RTK(<30 km)	Horizontal: 0.008m+1ppm Vertical: 0.015m+1ppm
Communication	
Data Interface	Mini USB2.0
Bluetooth	Dual mode, Bluetooth V2.1/ Bluetooth V4.0, support EDR
Electrical	
Battery	6800mAh, Li-ion battery built in, 3.7V
Battery life	Typically 11 hrs or more
Environmental	
Operating temperature	-20℃~+60℃
Storage temperature	-30℃~+70℃
Shockproof	Withstand drop from 1.5m to concrete
Waterproof/Dustproof	Test to IP67 standard
Physical	
Dimensions(mm)	100(L)×100(W)×35(H)
Weight	400 g



SOUTH SURVEYING & MAPPING INSTRUMENT CO.,LTD.

Add: 2/F, Surveying Building (He Tian Building), NO.26, Ke Yun Road, Guangzhou 510665, China
 Tel: +86-20-23380891/85524990/23380888 Fax: +86-20-85524889/85529089/23380800

E-mail: mail@southsurvey.com export@southsurvey.com impexp@southsurvey.com gnss@southsurvey.com
 http://www.southinstrument.com http://www.southsurvey.com