SPECIFICATIONS

GALAXY G1

Cost-effective,versatile,portable

Signal Tracking	
Channels	440 channels
GPS	L1, L1 C/A, L2, L2C, L2P, L5
BeiDou	B1, B2, B3
GLONASS	L1, L1C/A, L1P, L2, L2C/A, L2P
Galileo	E1, E5a, E5b
QZSS	Reserved
SBAS	WAAS, EGNOS, MSAS, GAGAN
GNSS Features	
Cold start	<50s
Warm start	<45s
Hot start	<15s
RTK Initialization time	typically<10s
Signal reacquisition	<1.5s
Initialization reliability	typically>99.9%
Positioning Specifications	
Static GNSS Surveying	2.5 mm+0.5 ppm Horizontal
	5 mm+0.5 ppm Vertical
Real-time kinematic surveying	8 mm + 1 ppm Horizontal
	15 mm + 1 ppm Vertical
E-RTK (<100km)	0.2m + 1 ppm Horizontal
	0.4m + 1 ppm Vertical
DGPS	<0.4 m 3D RMS
SBAS	1 m 3D RMS
Standalone	1.5 m 3D RMS
Communications	
I/O port	5-pin LEMO external power port +RS232
	7-pin LEMO USB
	1 network/radio data link antenna port
	SIM card slot
Radio	Integraded internal radio 1W/2W/3W
	External radio 5W/25W
	410-470MHz
	Trimtalk450s, TrimMark3, PCC EOT, SOUTH
Cellular	LTE-FDD(B1/B3), LTE-TDD(B38/B39/B40/B41), TDSCDMA(B34/B39), WCDMA(B1), CDMA(BC0), GSM(900/1800MHz)
Bluetooth	BLEBluetooth 4.0, Bluetooth 2.1+EDR standard
NFC (Optional)	Realizing close range (<10cm) automatic pair
Data Format	
Correction data I/O	RTCM 2.X, 3.X, CMR(GPS only), CMR+(GPS only)
Position data output	-ASCII: NMEA-0183 GSV, RMC, HDT, VHD, GGA, GSA, ZDA, VTG, GST; PTNL, PJK PTNL, AVR PTNL, GGK
Network protocol	VRS, FKP, MAC, supporting NTRIP protocol
Memory	8 GB
Environmental	
Working temperature	-40℃° to +80℃°
Storage temperature	-55℃° to +95℃°
Humidity	95% no condensation
Weight	920g
Waterproof	IP67
Shock and Vibration	MIL-STD-810G
Electrical	
Operating time	>6hours

● Linux platform
● GPS|GLONASS|BEIDOU|GALILEO
● 8GB MASS STORAGE
● SOUTH,TRIMTALK PROTOCOLS

G1 inherits almost all of advanced features from G1plus, so it's more cost-effective, power-saving.
G1 GNSS mainboard supports GPS, GLONASS, Beidou, also Galileo constellation.

STRUCTURE

1. Bluetooth indicator
2. DATA interaction
3. Satellite indicator
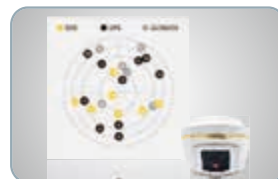4. Power key
5. Battery housing
6. Loudspeaker
7. UHF/network antenna
8. LEMO(5 pins)
9. LEMO(7 pins)

KEY FEATURES

Intelligent platform

Embedded Linux operation system, making it starts faster and more responsive in real time. Web UI management platform supports USB mode connection. Users can monitor the receiver status and configure it via the internal Web UI management platform.

Full satellite constellations support

Equipped with most advanced GNSS boards, SOUTH Galaxy G1 system can track most signal from all kinds of running satellite constellation, support B1, B2, B3 signal from BeiDou, and E1, E5a, E5b signal from Galileo.

Bluetooth module and NFC function

Equipped with bluetooth 4.0 module, which supports receiver to work well with smartphone and tablet etc. The internal NFC module can make the complicated bluetooth communication more simple and easier.

Advanced data-link module

Integrated with new and excellent datalink system, SOUTH Galaxy G1 is compatible with current radio protocols in the market, also supports all kinds of network types to access CORS seamlessly.

CONTROLLERS

X11 Pro
· 72 channels all-in-vien tracking, L1 C/A
· Windows Mobile 6.5
· AM335X 1GHz CPU
· 5MP integrated camera
· 3.5G network module
· 8G mass storage

S720
· Windows Mobile 6.5
· Cortex A8, 1GHz
· 512M RAM
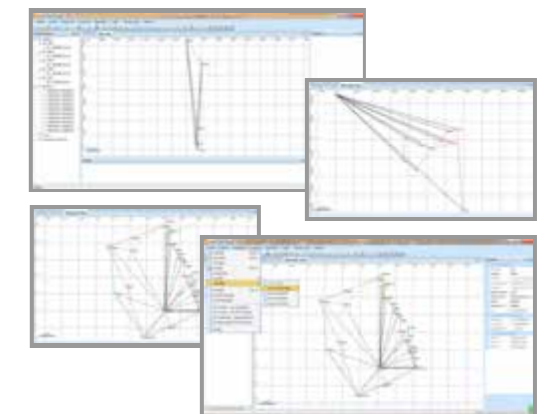· 16G mass storage
· IP65

T17
· Windows Mobile 6.5
· 806MHz processor
· 512M RAM
· 3.7 inch screen
· 167 channels, GPS (L1), BD (B1)
· IP65

SOFTWARE

STC is a new post-processing software that integrates static data processing and kinematic adjustment

-Antenna manager with popular receiver types
-Compatible with numerous data format
-Update online
-Abundant report exporting
-Fast processing and clear display
-Transformable to RINEX format
-Full options for result Export
-Powerful baseline settings
-Manually edit and filter satellite data for best result

SOUTH Total Control Software

Field Software

MicroSurvey FIELDGenius

Field Genius is a powerful survey data collection software from Canada. Advanced Roading, Surfacing, Slope Staking, Code Free Linework, Smart Points and GPS support and Live Graphics make FieldGenius the choice of organizations that value productivity. Multi-language is available,which already supported all of South GPS models.
(Need to purchase individually)