

APS-3G

The APS-3G delivers multi-frequency GPS/GLONASS/Galileo satellite technology within the same form factor as the APS-3.

Integrated with a matching wide band GNSS antenna, the APS-3G provides simultaneous high-quality GPS, GLONASS and Galileo tracking together with a digital UHF radio, and a GSM/GPRS or CDMA modem for robust RTK upon demand.

Besides GNSS modernization, the APS-3G also includes a range of innovative features, such as the patented Galileo AltBOC tracking, the advanced multipath mitigation algorithm APME, LOCK+ tracking for exceptional tracking stability under high vibration conditions, RTK+ for extended RTK baselines and faster initialization, and AIM+, Septentrio's Advanced Interference Mitigation technology.

For ease of use and simplicity, the APS-3G is completely configurable from the data collector via Bluetooth for either Base or Rover operation with the internal UHF radio, or for Network Rover operation with the internal cellular modem.

FEATURES

- 136 Channels for GPS, GLONASS, GALILEO & Compass
- Integrated Quad-Band GSM/GPRS Modem or CDMA Modem
- Integrated 406-470 MHz Digital UHF transceiver
- Integrated Bluetooth
- Dual Hot Swap Li-Ion batteries with Fuel Gauge
- Removable min. 2 GB SD Card storage

With Altus's open architecture philosophy, the user has a choice of data collector software including MicroSurvey FIELDGenius and Carlson SurvCE, or custom software.

PRODUCT	GPS	GLONASS	GALILEO	UHF Radio	GSM/GPRS or CDMA	Ext. Ant. Port
APS-3G	✓	✓	✓	✓	✓	
APS-3Gm	✓	✓	✓		✓	
APS-3Gx	✓	✓	✓	✓	✓	✓

The APS-3G is Simply Better Value by Design.



SPECIFICATIONS

	APS-3G
Channels	136
GPS	L1/L2/L2C/L5
GLONASS	L1/L2
GALILEO	L1/E5a/E5b
COMPASS	Compass Ready
SBAS	WAAS, EGNOS
Standalone	1.3 m H, 1.9 m V
SBAS	0.6 m H, 0.8 m V
DGPS	0.5 m H, 0.9 m V
RTK	1 cm + 1 ppm H 2 cm + 1 ppm V
Static	2 mm + 0.5 ppm H 5 mm + 0.5 ppm V
Output Rate	25 Hz
Measurement Rate	100 Hz
Latency	<20 msec
Average Time to Fixed RTK	<7 sec
Cold Start	<45 sec
Warm Start	<20 sec
Re-acquisition	<1.2 sec
Integrated UHF Radio	406-470 MHz
Integrated Cellular Modem	GSM/GPRS Quad-Band or CDMA
Integrated Bluetooth	Class 2
Memory	Min. 2 GB SD Card, removable
User interface	Power /Reset/Logging Data Collector or PC
Serial Ports	2, Lemo
Waterproofing	IP67
Certification	CE, FCC Class B Part 15
Internal Battery	2 x Li-Ion, 5000 mAh, 7.4V
Current Drain	1.0 to 1.5 A, 2.75 A peak
External Power Input	9 to 18 VDC, Lemo
Weight	<1.3 kg
Dimensions	178 mm Dia. x 89.7 mm
Operating Temperature	-20 to +65 deg C
Storage Temperature	-40 to +75 deg C
Shock/Drop	2 m

Specifications are typical and subject to change without prior notice.

Each APS-3 is delivered with 2 x Li-Ion hot swappable batteries, a 2-Bay Battery Charger, and serial & power cables. The APS-3G is ready to use direct from the shipping case.