



The APS-3X enables seamless GPS+GLONASS RTK operations with either the Integrated GNSS antenna or an External GNSS antenna for maximum flexibility.

The APS-3X incorporates an automated antenna detection capability to switch between internal and external antennas.

While GPS+GLONASS RTK is delivered in a small and light design for ultra portability, the external GNSS antenna option adds ultra flexibility. RTK surveys may be done with the traditional survey pole, a backpack, or with a vehicle using the same APS-3X receiver to optimize equipment investment.

The APS-3X integrated wireless option include a GSM/GPRS or CDMA modem for easy Real Time Network connection, and a digital UHF transceiver for Base/Rover operation on demand.

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

FEATURES

- ▶ 136 Channel GPS + GLONASS receiver
- ▶ External GNSS antenna port
- ▶ Integrated 3.5 G cellular modem, Tri-Band HSPA, Quad-Band GSM/GPRS/EDGE
- ▶ Integrated Digital UHF transceiver, 406-470 MHz
- ▶ 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 the choice of data collector software from MicroSurvey FIELDGenius or Carlson SurvCE to custom software.

Product	GPS	GLONASS	UHF Radio	GSM/GPRS or CDMA	Ext.Ant.Port
APS-3u	✓	✓	✓	✓	
APS-3m	✓	✓		✓	
APS-3x	✓	✓	✓	✓	✓

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

GNSS precision and reliability are subject to anomalies due to multipath, obstructions, satellite geometry, and atmospheric conditions. Contact Altus for more information. Specifications are subject to change without notice.

SPECIFICATIONS

Channels	136
GPS	L1/L2/L2C/L5
GLONASS	L1/L2
SBAS	WAAS, EGNOS
Standalone	H: 1.3 m, V: 1.9 m
SBAS	H: 0.6 m, V: 0.8 m
DGPS	H: 0.50 m, V: 0.90 m
RTK	H: 0.6 cm + 0.5 ppm, V: 1 cm + 1 ppm
Static	H: 2 mm + 0.5 ppm, V: 5 mm + 0.5 ppm
Output Rate	25 Hz
Measurement Rate	25 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 to 470 MHz
Integrated Cellular Modem	3.5 G HSPA Modem, HSDPA 7.2 Mbps, GPRS multi-slot class 12, EDGE (E-GPRS) multi-slot class 12, UMTS/HSPA 850/1900/2100 MHz, Quad-Band GSM 850/900/1800/1900 MHz
Integrated Bluetooth	Class 2
Memory Storage	2 GB SD card minimum, removable
User Interface	Power/Reset/Logging, Data Collector or PC
Serial Ports	2 Lemo
External GNSS Antenna Port	1, TNC
Waterproofing	IP67
Certification	CE, FCC Class B Part 15
Internal Battery	2 x Li-Ion, 5000 mAh, 7.4V
Current Drain	1.0 to 1.5A, 2.75A 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 degrees C
Storage Temperature	-40 to +75 degrees C
Shock/Drop	2 m



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

