

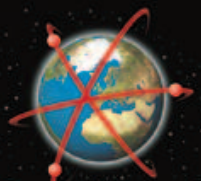


# New for 2011 VFlex mobile and base

V-flex mobile is a new development of DGPS 4u Ltd. It is a totally flexible system, you can start off with just normal DGPS using the EGNOS SBAS Free Service.

As you progress and need better accuracy for drilling or using auto-steer, you have the option to change from DGPS to RTK L1 Or RTK L1 / L2 by software upgrade but still retaining same housing, power supply, cable, antenna etc. A UHF radio Modem is added to receive the correction, which slides into the housing making it a very compact RTK all in one system. The GPS antenna and UHF antenna are combined in one unit (No other company currently offer this type of combined antenna in the agricultural market).

By building on the system you are using, you are taking on step at a time. By using the next option RTK it is not necessary to have auto-steer. You can use your normal guidance system (Jethro etc) with RTK but with manual steer etc, for your drilling etc. You will need a base station which we can also supply with the system range is 10Km or more depending on what the terrain is and which RTK system you use, you can also lock into local RTK network if one is available.



# DGPS 4U

## V-Flex Mobile GPS Options

- ▶ 14 Channels
  - 12 GPS code and carrier
  - 2 SBAS (WAAS/EGNOS/MSAS)
- ▶ Standard NMEA-0183 V3.0 output
- ▶ Selectable position and raw data rates up to 20 Hz (maximum 10 Hz with RTK)
- ▶ Position latency output
- ▶ Raw data output (code and carrier)
- ▶ 1 PPS (5V TTL)
  - Precision: 200 ns (stand-alone)
  - 50 ns (differential)
- ▶ Edge and Strobe Correlator
- ▶ Differential rover RTCM V2.3 message types 1,2,3,6,9,16,18,19,22. RTCM V3.0 message types 1001-1006
- ▶ 20 G tracking capability
- ▶ Differential base RTCM V2.3, message types 1,2,3,6,9,16,18,19,22
- ▶ Kalman filter
- ▶ Event marker
- ▶ Session programming

### RTK Rover

- ▶ Blade™ technology
- ▶ 5 Hz Synchronized RTK
- ▶ 10 Hz Fast RTK
- ▶ Compatible with RTCM 2.3, RTCM-3.0, DBEN (Magellan proprietary)
- ▶ Moving base operation
- ▶ Heading and pitch/roll determination with auto-calibration

## RTK L1 L2 Option

### FEATURES

- ▶ Dual-frequency L1/L2 code/carrier tracking of GPS and GLONASS signals.
- ▶ 66 hardware channels for simultaneous tracking of all visible satellites in GPS and GLONASS constellations
- ▶ 20 Hz data output rate (user selectable)
- ▶ A Posteriori Multipath Estimator technique (APME)
- ▶ Differential GPS (base station and rover)
- ▶ Includes up to 3 SBAS channels (EGNOS, WAAS, other)
- ▶ Innovative and flexible power management under user control
- ▶ x PPS output (x = 1, 2, 5, 10)
- ▶ 2 Event markers
- ▶ RAIM included
- ▶ Raw data output (code, carrier, navigation data)
- ▶ Three serial ports
- ▶ (LVTTTL - OEM Board, RS232 - AsteRx2 HDC )
- ▶ 1 full speed USB port
- ▶ Highly compact and detailed Septentrio Binary Format (SBF) output
- ▶ NMEA v2.30 output format, up to 10 Hz
- ▶ RTCM v2.2, 2.3, 3.0 or 3.1
- ▶ CMR2.0 and CMR+
- ▶ Compact OEM board and housed solutions
- ▶ Includes intuitive GUI (RxControl) and detailed operating and installation manual

## AsteRx1- L1 RTK

### FEATURES

- ▶ 24 hardware channels for simultaneous single-frequency L1 code/carrier tracking of GPS and Galileo (optional) signals
- ▶ Includes up to 3 SBAS channels (EGNOS, WAAS, other)
- ▶ Raw data output (code, carrier, SBAS navigation data)
- ▶ Standard up to 10 Hz raw measurement and PVT output rate (user selectable)
- ▶ A Posteriori Multipath Estimator technique (APME)
- ▶ Differential GPS (rover, base station option)
- ▶ x PPS output (x = 0.1, 0.5, 1, 2, 5, 10)
- ▶ EGNOS and WAAS compatible
- ▶ Provision of protection levels in SBAS positioning mode (HPL/VPL)
- ▶ RAIM
- ▶ 2 Event markers
- ▶ Three serial ports (RS232/LVTTTL) and 1 full speed USB port
- ▶ Highly compact and detailed Septentrio Binary Format (SBF) output, up to 50 Hz
- ▶ NMEA v2.30 output format, up to 10 Hz
- ▶ Compact creditcard-size OEM board solution
- ▶ OEM board or mounted in IP65 waterproof enclosure
- ▶ Different models available
- ▶ Includes intuitive GUI (RxControl) and detailed operating and installation manual

### OPTIONAL UPGRADE POSSIBILITIES

- ▶ Optional high data rate capability (Up to 50 Hz raw measurement and 20 Hz PVT output rate)
- ▶ Optional RTK (single-frequency)
- ▶ Optional Galileo L1 tracking and P