





Bad Elf Flex Democratizes GNSS and Economizes Field Data Collection.

Our customers shared their needs for lower cost GNSS solutions that include full RTK rover workflow. Bad Elf Flex delivers 30-60cm accuracy all day, every day.

Need higher accuracy? No problem! Bad Elf Flex tokens provide a USD \$25* per day rate for features that typically cost thousands of dollars – and every Bad Elf Flex unit includes a free starter pack for you. This daily rate includes full access to both an unlocked RTK workflow and the Atlas L-Band correction service. Bad Elf Flex is the first GNSS receiver to have a daily choice with unlimited switching between L-Band and RTK.

The Bad Elf Flex delivers customers a comparative advantage in a total geospatial solution. A single GNSS receiver removes the need for deploying multiple devices in the field. Surveyors and their crews now have a scalable accuracy, survey-grade receiver. GIS managers focus on flexible field choices for work crews with varying skill levels. Businesses obtain operational and financial efficiencies. Bad Elf Flex effectively offers you several products in one package through flexible software and configuration. Some have even said it is Engineered Magic[®]!

Bad Elf Flex delivers high accuracy without any additional subscription or cost. Compatible with phones or tablets for use in GIS, mapping, agriculture, and survey data collection.

On-demand data logging includes:

- Raw data logging in RINEX format for post-processing
- Logging in CSV or NMEA 0183 formats
- Available standalone or through the Bad Elf Flex app



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Part Number		Operating Specifications	
Model	BE-GPS-5500 (Standard)	Operating	-4°F to +131°F (-20°C to +55°C)
	BE-GPS-6500 (Extreme)	Battery Powered	-14°F to -140°F (-10°C to +60°C)
Positioning Engine ¹		Externally Powered	-22°F to +140°F (-30°C to +60°C)
GPS	L1CA / L1P / L1C / L2P / L2C / L5	Charging Temp	41°F to +113°F (+5°C to +45°C)
GLONASS	G1/G2/P code (P1/P2)	Storage Temp	-40°F to +167°F (-40°C to +75°C)
BeiDou	B1/B2/B3	Battery Specifications	
Galileo	E1BC / E5a / E5b	Full RTK	11 hours
QZSS	L1CA / L1C / L2C / L5	L-band Atlas	8 hours
Positioning Performance ²		Mechanical Specifications	
Horizontal accuracy - RTK	1 cm		Transflective LCD Membrane Buttons
Horizontal accuracy - SBAS (WAAS)	30-60 cm	User interface	3 multicolor LEDs Audible tones
Horizontal accuracy - Autonomous	1.2 m	Dimensions	10.0" x 2.75" / 254mm x 70mm
		Weight	29oz / 854g
Horizontal accuracy - L-Band via Atlas	4 cm	Helical Antenna Phase Center	23cm above base of Flex unit Add 1.5cm with adapter installed
Cold start time	< 60 s typical (no almanac or RTC)	Environmental Specifications	
Warm start time	< 30 s typical (almanac and RTC)	Humidity	100% condensing
Hot start time	< 10 s (almanac, RTC, and position)	Waterproof	IP65
Maximum speed	1,850 kph (999 kts)	Product Specifications	
Maximum altitude	18,288 m (60,000 ft)	Mini-LISB port for charging and data	
Differential options	SBAS, Autonomous, External RTCM v2.3, RTK v3, L-band (Atlas), and DGPS	USB Port	transfer
Correction I/O protocol	Hemisphere GNSS' ROX, RTCM v2.3 (DGPS), RTCMv3 (RTK), CMR, CMR+, Atlas	Accelerometer	3-axis
		Display	400 x 240 pixel transflective LCD screen with backlight
Interfaces	Atius	Firmware	Field upgradeable via app or USB
USB 2.0 device via Mini-USB receptacle		Package Contents	
USB	USB 2.0 host OTG via supplied adapter		BE-GPS-5500 Flex receiver
Bluetooth	Bluetooth V4.0 (HS) with integrated Class 1.5 PA Supports 3 simultaneous connections		 3ft (90cm) Mini-USB cable for charging 12-24V DC vehicle USB charger
Wi-Fi	802.11b/g/n	Contents	Wall adapter
Compatibility			Accessory caseRugged waterproof case
Platforms	iOS, Android, Windows		 5/8" x 11 to 1/4" x 20 adapter User's Manual & Quick Start Guide
Mobile App	The Bad Elf Flex App requires iOS 9.0+ or Android 9+		
Connectivity	Bluetooth SPP, USB Serial	X	
configuration and subsc multi-constellation, sing	uencies are dependent on receiver riptions, Bad Elf Flex Standard supports le frequency + SBAS. Tokens unlock listed Band. Bad Elf Flex Extreme supports all quencies, and RTK.		
² Accuracies listed are best-case, ideal circumstances, RMS.			,