



TUNE IN TO THE FUTURE USING DGRx™ POWER AND ADAPTABILITY THE GATOR OEM KIT DOES IT

Connects to Windows / Windows CE computers
PC card slots or USB. Make your own cover or use ours.

DataGrid® inside



*DataGrid's new ADD ON for precise RTK
"on the spot"*

THE MOST ADVANCED

The Gator kit integrates a DGRx™-GNSS receiver on a PC Card (PCMCIA single slot) found on many handheld computers or integrates to a USB connection. Gator uses the automatic connection procedure to base networks with simplified setup and operation found on our Chameleon, the most user-friendly RTK VRN solution on the market. Adaptable and advanced, capable of centimeter range accuracy, the Gator is an ideal alternative for high precision applications including surveying, precision GIS and machine guidance.

SIMPLE OPERATION

With the mere touch of a finger Gator connects to a virtual reference network. A pole mounted Gator equipped rugged PC/PDA is the ultimate lightweight field survey or stakeout equipment – ergonomic and easy to operate.

DESIGNED TO MEET THE FUTURE

To meet ever evolving requirements, the Gator is equipped with DGRx receivers – DataGrid's programmable answer to obsolescence. With its hundreds of programmable correlation channels and thousands of search channels Gator tracks GPS and GLONASS on L1/L2 and has ample capacity to use Galileo, Compass and other emerging satellite systems. Build your own looks, functionality and feel into your integration using DataGrid's new for 2011 flexible and powerful user interface based on a client – server architecture. You may develop RTK, VRN, rover applications and you may turn the Gator into a base or network reference station. Develop your own custom applications or use ours.

GIS DATA COLLECTION

The Gator is designed for seamless collection of data from a broad range of sensors and instrumentation including environmental sensors, ground penetrating radar and marine depth sounding sensors

DataGrid is a US company in the positioning field with focus on OEM solutions, GIS and data collecting with GNSS equipment. Our products are based on our own patented technology, developed and built in Europe or the USA. They are lightweight easy to operate, ergonomic and programmable. Our answer to obsolescence – get DataGrid.



DataGrid® inside

SPECIFICATIONS GATOR



FEATURES	
Search channels	4,000 or more (depending on config.)
Correlation channels	336 or more (depending on config.) Default tracking: 18 L1, 12 L2
SBAS channels (WAAS, EGNOS, MSAS, ...)	2 or more (depending on config.)
Frequency bands	L1/L2
Navigation Signals tracked	GPS L1/L2/L2c, GLONASS L1/L2c, Galileo and COMPASS ready
Sensitivity	45 DbHz carrier (15 DbHz code with H.S. option)
Correction signals	SBAS (WAAS, EGNOS, MSAS, ...), RTCM ver 2.3, 3.0, 3.1, compatible with CMR/CMR+
Operating modes	Rover or base station, RTK, virtual reference, geodetic postprocessing
Base data latency tolerance in RTK	5 seconds
TYPICAL ACCURACY	
Code phase GPS-positioning	Dynamic GPS (EGNOS, WAAS, SBAS, MSAS) +/-1m
Static and fast static GPS measurement	Horizontal +/- 5 mm + 1 ppm RMS; vertical +/- 10 mm + 1 ppm RMS
Kinematic measurement RTK	Horizontal +/- 10 mm + 1 ppm RMS; vertical +/- 20 mm + 1 ppm RMS
Time accuracy	< 35 nanosec
INITIALIZATION TIME	
Cold start	<60 seconds
Warm start	<38 seconds
Hot start	<8 seconds
Re-acquisition	<1 second
OUTPUT	
Update rate	up to 20/sec actual measurements (20 Hz real)
ASCII	NMEA 0183
Binary DGR-format	Raw GNSS data (Code and carrier L1, L2, L2c GPS and L1, L2c GLONASS), ephemerides, status messages, etc..
INPUT	
Reference (base-) data	RTCM ver 2.3, 3.0, 3.1, compatible with CMR/CMR+,
CONNECTION	
to Windows or Windows CE comp.	PC Card (PCMCIA) single slot 3.3 Volt or USB
External antenna connector option	+ 3.3 Volt
POWER	
Power consumption	< 1.8 Watt
PHYSICAL	
Operating temperature (noncondensing)	-40° C to +85° C (-40° F to +185° F)
Storage temperature (noncondensing)	-40° C to +85° C (-40° F to +185° F)
OPTIONS WITH DEV. CONTRACT	
High Sensitivity mode	15 DbHz ("indoors" sensitivity level)
High Precision Timing mode	~20 nanosec
High Altitude / High Dynamics mode	unlimited in altitude, up to 20 g acceleration (for authorized users only)
Space Qualified version	DataGrid and its partners can support all aspects of spacecraft integration
L1c option	expected broadcast start in 2013

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