



ANTARIS™ EvalKit

GPS Evaluation Kit

ANTARIS™ Positioning Engine

The ANTARIS™ EvalKit is a ready-to-go starter kit that allows fast and easy evaluation of the ANTARIS™ GPS technology jointly developed by Atmel and u-blox. Get a feel for the capabilities of the ANTARIS™ GPS technology.



Overview

The ANTARIS™ EvalKit provides everything you need to evaluate, test and configure the ANTARIS™ technology in your application. It is equally suitable for real-time testing in the field or static testing on the laboratory.

The EvalKit includes an Evaluation Box which contains the GPS receiver and the powerful Evaluation Software: u-center AE (ANTARIS™ Edition). The Evaluation Box connects to a serial port of a PC and connects to u-center AE. u-center AE allows you to monitor the current status of the GPS receiver. A variety of visualization and configuration functions allow quick and easy evaluation of the receiver. Using the Evaluation Box with the included car power adaptor and the u-center AE software makes road testing an easy task.

Hardware

- ANTARIS™ Evaluation Box, containing
 - TIM-LP
 - Dual RS-232 serial line transceivers
 - Battery (900 mAh) to deliver lifetime battery backup
 - 2 RJ45 serial connectors
- 2 serial cables with RJ45-DB9 adapters
- Active GPS antenna with SMA connector
- 100-240 VAC power adapter
- Car adapter (12V) fitting into cigarette lighter jacks

Software

- u-center AE (ANTARIS™ Edition) GPS Evaluation Software for Windows

Documentation

- ANTARIS™ EvalKit User's Guide, describing:
 - Introduction to GPS
 - Introduction to the ANTARIS™ Technology
 - Description of Evaluation Kit (external and internal interfaces and features)
 - How to evaluate a GPS receiver
 - Protocol Specification
- u-center AE User's Guide

*your position
is our focus*



Specifications

Evaluation Box



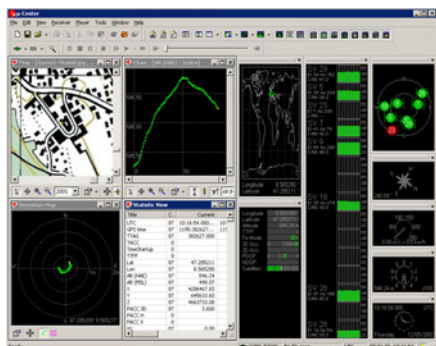
Receiver Performance Data

Receiver Type	16 channel, L1 frequency, C/A code
Max. Update Rate	4 Hz
Accuracy	Position 3 m CEP DGPS 2 m CEP ¹
Start-up Times	Hot start 3.5 sec Warm start 33 sec Cold start 41.5 sec
Signal reacquisition	< 1 s
Operational Limits	COCOM restrictions apply
Serial Interfaces	2 x RS-232
Power Supply	9 – 18V

¹ Depending on accuracy of correction data

For more detailed information on the GPS performance check the *Evaluation Kit User's Guide*

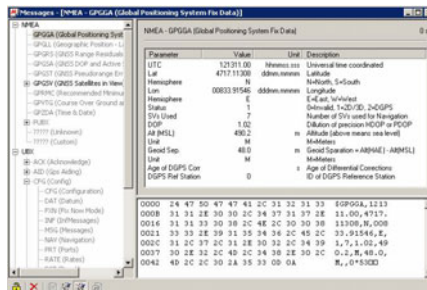
u-center ANTARIS™ Edition



u-center AE lets you configure and test your GPS receiver. You can analyze the data immediately, or store the data and replay the logfile later.

Configuration

u-center AE lets you configure the GPS receiver easily. All supported input/output protocols (NMEA and UBX binary) can be observed and edited in the Message View.



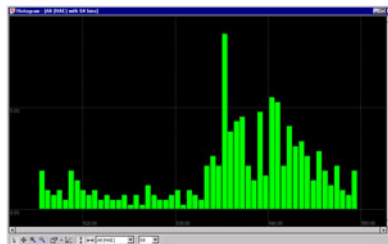
Visualization

A quick look at a trace on a map tells us a lot about the GPS receiver's performance. u-center lets you put your position on a map. Take a picture file of a map and calibrate it.



Testing

A variety of statistics are calculated by u-center AE, these can be visualized in histograms or tabular views.



Ordering Information

AEK-LS-0-000-0 ANTARIS™ EvalKit – Evaluation Kit

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