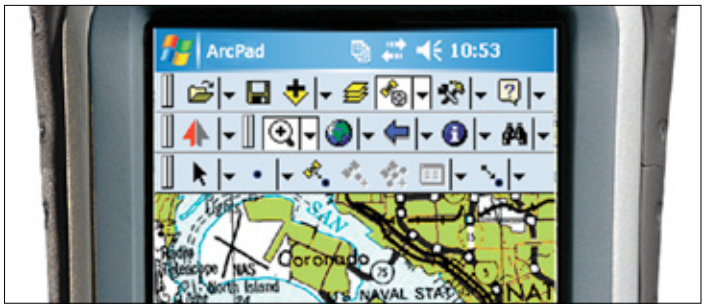
GNSSDriver for ArcPad

ISO 9001 Certified

Free receiver-independent extension that adds EZ post-processing power to ArcPad

OnPOZ GNSS Driver for ArcPad is the only receiver-independent extension that adds the power of post-processing to ArcPad. With post-processing technology, you can improve your GNSS/GIS data accuracy and reliability.

Without changing anything in your current ArcPad workflow, the OnPOZ GNSS Driver for ArcPad extension seamlessly logs real time positions, metadata and all GNSS observations in order to increase the reliability and accuracy of GNSS positions by post-processing your ESRI Shapefiles.



GET THE VERY BEST ACCURACY OUT OF YOUR ARCPAD FILES

Post-processing ensures reliability and a significant accuracy improvement. It can easily increase accuracy up to sub-meter, sub-foot and even centimeter accuracy. The quality of the positioning is highly related to the survey environment, antenna quality and receiver quality.

Post-processing with EZSurv easily allows for sub-foot accuracy under open sky environments with a receiver providing full GNSS observables (pseudorange, Doppler and carrier phase), along with an external geodetic antenna. With a nearby base station, such a receiver configuration offers post-processed centimeter accuracy. GNSS Driver for ArcPad supports many GNSS receivers with such capabilities.

EZSurv post-processing software makes it possible to differentially correct Shapefiles collected with ArcPad using the GNSS Driver for ArcPad extension. Post-processing is straightforward, since EZSurv processes the ESRI Shapefiles directly. With a single keystroke, EZSurv handles multiple receiver formats and automatically finds a nearby base station to output extra accuracy for your office mapping software.

RECEIVER-INDEPENDENT GNSS UNIVERSAL DRIVER

The OnPOZ GNSS Driver for ArcPad extension is based on OnPOZ GNSS Universal Driver, which comes with multiple specific GNSS manufacturers' protocols. This allows ArcPad to be used with the GNSS receiver of your choice. New receiver protocols are added on a regular basis.

EZSURV POST-PROCESSING SOFTWARE

EZSurv GNSS post-processing software is a fully automated solution designed to easily process raw GNSS data from different receiver brands. It is an open solution that processes GPS as well as GLONASS signals. With EZSurv, all you need are your GNSS data files and a link to the Internet. With a single keystroke, EZSurv searches the Internet to retrieve the best base station data and processes using sophisticated, rigorous algorithms to get the best out of your GNSS raw data. EZSurv is compatible with multiple base station networks as well as multiple raw data formats. It provides all the flexibility you need with its graphical (Plan View) and Windows Explorer (Project Manager) user interfaces.

OnPOZ

GNSSDriver for ArcPad

Features

KEY FEATURES

Record GNSS data for improved post-processing accuracy
Support multiple GNSS receivers from many manufacturers
Seamless GNSS integration within ArcPad

SUPPORTED GNSS PROTOCOLS*

Altus
Geneq
Hemisphere GPS
NavCom
Novatel
Pentax
Septentrio
SiRF
TechGeo
Ublox

* Protocols are added on a regular basis.

RECOMMENDED CONFIGURATION

OnPOZ GNSS Driver for ArcPad runs on Windows Mobile (5 and 6) and Microsoft Windows operating systems.
Required software: ArcPad version 7.1 and higher
Refer to ArcPad documentation for specifications. In addition, GNSS Driver for ArcPad requires 5 MB of disk space on Windows Mobile and 30 MB on Microsoft Windows.

GNSS ACCURACY

Real time accuracy depends on GNSS corrections used (SBAS/RTCM/RTK)
Improved accuracy with EZSurv post-processing software

EZSURV POST-PROCESSING

Planning tools
Supports GPS and GLONASS data
Complete coordinate system support
Base station search engine
Supports all positioning modes (static, rapid static, semi-kinematic, kinematic, OTF, stop-and-go, PPP)
Network adjustment
Advanced QA tools
GPS or GNSS version: Lite (sub-meter/sub-foot), L1 (L1- centimeter), L1L2 (dual-frequency full version)

EZSURV ACCURACY

RECEIVER	KINEMATIC	STATIC	SEMI KINEMATIC	OTF
Single-frequency	sub-meter[1],sub-foot[2]	sub-centimeter[3]	centimeter[4]	centimeter[5]
Dual-frequency receiver	N/A	sub-centimeter[6]	N/A	centimeter[7]

1. Horizontal accuracy (HRMS). Requires 5-10 minutes of continuous tracking with at least 5 satellites with a PDOP greater than 6. Multipath and ionospheric effects can affect final accuracy. Base station separation may affect accuracy by about 5 ppm (depending on the quality of the base station data).
2. Horizontal accuracy (HRMS). Requires 15-20 minutes of continuous tracking with at least 5 satellites with a PDOP greater than 6. Multipath and ionospheric effects can affect final accuracy. Base station separation may affect accuracy by about 5ppm (depending on the quality of the base station data).
3. Horizontal baseline accuracy (HRMS). Requires 15-30 minutes of good data on a minimum of 4 satellites with a PDOP greater than 6. Multipath and ionospheric effects can severely affect final accuracy. This horizontal accuracy usually translates into 1cm +/- 2 ppm.
4. Requires L1 frequency receiver that outputs quality code, Doppler and carrier phase observations, along with reliable real-time cycle-slip detection. EZField data acquisition software is recommended for semi-kinematic; it is designed to facilitate the semi-kinematic process.
5. Horizontal accuracy (HRMS). Requires 30 minutes of continuous tracking with at least 5 satellites with a PDOP greater than 6. Base station must be within 10 km. Multipath and ionospheric effects can affect this accuracy. This horizontal accuracy usually translates into 2 cm +/- 2 ppm.
6. Static results require only 5-10 minutes of data to achieve centimeter accuracy. This horizontal accuracy usually translates into 1cm +/- 1 ppm (with good dual frequency data).
7. OTF requires approximately 30 seconds of continuous tracking with at least 5 satellites and a PDOP greater than 6. Multipath and ionospheric effects can affect final accuracy. This horizontal accuracy usually translates into 2 cm +/- 2 ppm.

ESRI Technology
AUTHORIZED BUSINESS PARTNER

ArcPad

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