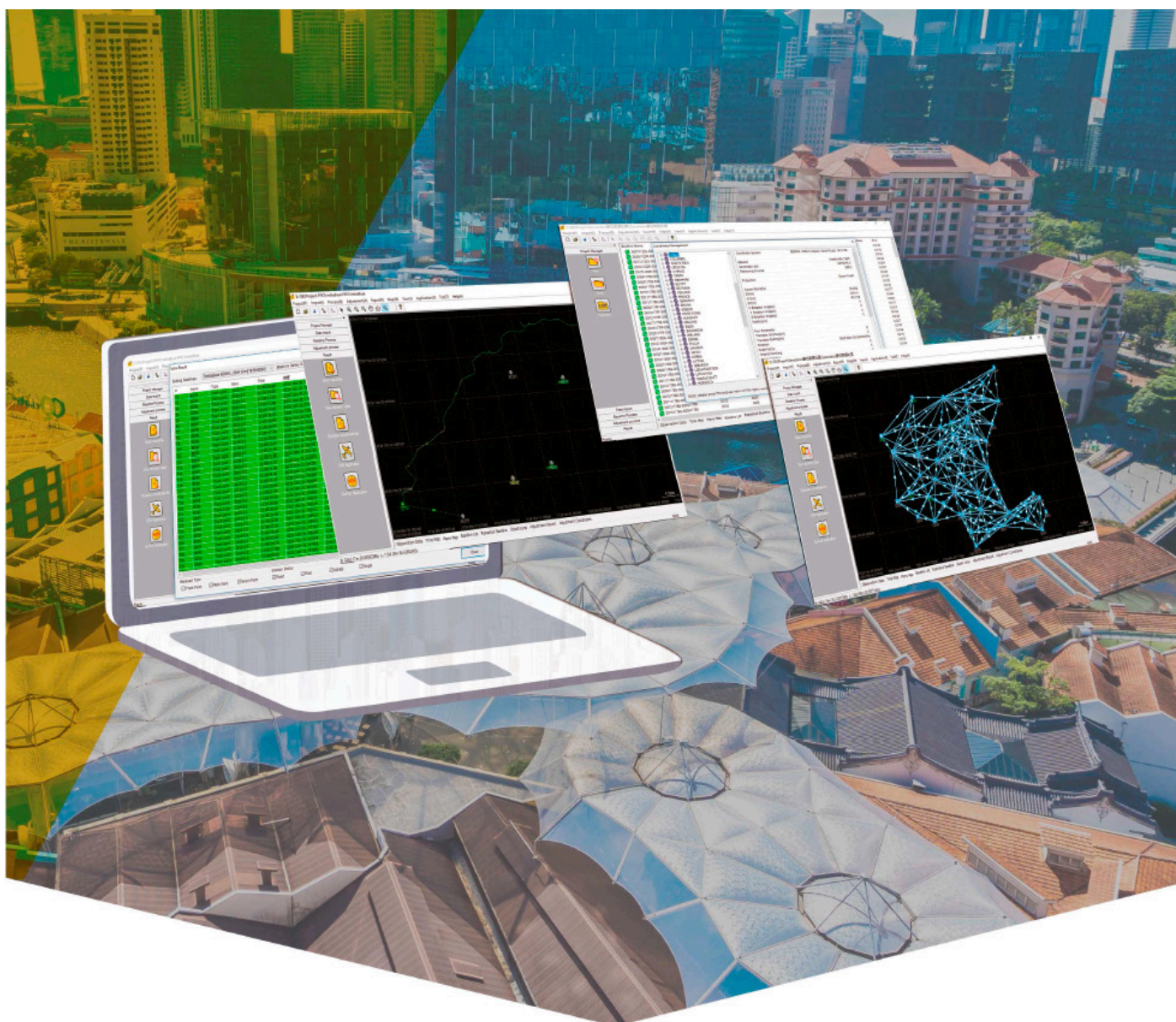




## GINTEC GeoSolution BROCHURE

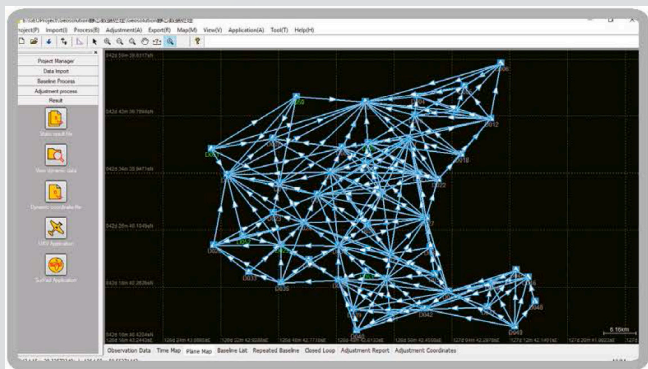
Geosolution is a GNSS Post-Processing software that is designed to edit, process, and analyse raw GNSS data for obtaining high accuracy position results after data collection. While built with Gintec's GNSS receivers in mind, the software supports a wide range of receivers from various brands, including Topcon, Sokkia, Javad, and much more. Geosolution supports all major GNSS satellite constellations, namely GPS, GLONASS, Galileo, and BeiDou.

With its latest and most rigorous algorithm yet, Geosolution will process and adjust GNSS data from any network quickly and with great precision. The software also offers reliable and efficient RTK off-line solutions (PPK), and can process trajectories easily when kinematic GNSS data is combined with base station data, making it an effective partner for PPK photogrammetric missions. Geosolution offers PPP capabilities too, where it can automatically access precise orbit and clock files (daily) from several computing centres around the world.



# FUNCTIONS

## 1. 2D / 3D static network setting



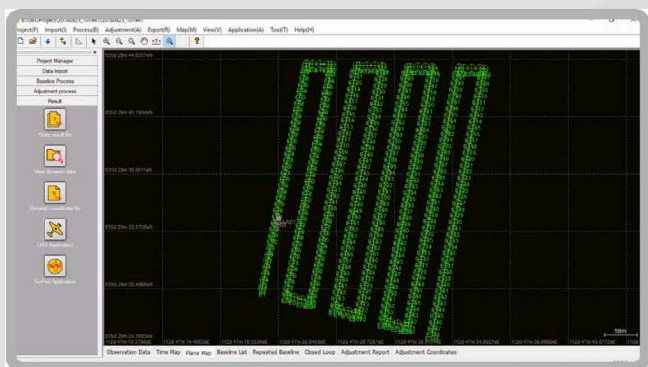
Geosolution's proprietary algorithm can process baseline vectors and adjust any 2D/3D static network quickly and accurately. No matter if it is a network with a single loop path or a complex network with interconnected paths, Geosolution can fit all the observed data simultaneously and provide the best solution.

## 2. High precision PPK solution

Name	Type	Date	Time	Easting	Northing	Elevation
10000	Track point	2018-05-05	11:00:00.00	1024 184 12 799118	1134 204 12 800794	10 8420
10001	Track point	2018-05-05	11:00:00.01	1024 184 12 799118	1134 204 12 800794	10 8420
10002	Track point	2018-05-05	11:00:00.02	1024 184 12 799118	1134 204 12 800794	10 8420
10003	Track point	2018-05-05	11:00:00.03	1024 184 12 799118	1134 204 12 800794	10 8420
10004	Track point	2018-05-05	11:00:00.04	1024 184 12 799118	1134 204 12 800794	10 8420
10005	Track point	2018-05-05	11:00:00.05	1024 184 12 799118	1134 204 12 800794	10 8420
10006	Track point	2018-05-05	11:00:00.06	1024 184 12 799118	1134 204 12 800794	10 8420
10007	Track point	2018-05-05	11:00:00.07	1024 184 12 799118	1134 204 12 800794	10 8420
10008	Track point	2018-05-05	11:00:00.08	1024 184 12 799118	1134 204 12 800794	10 8420
10009	Track point	2018-05-05	11:00:00.09	1024 184 12 799118	1134 204 12 800794	10 8420
10010	Track point	2018-05-05	11:00:00.10	1024 184 12 799118	1134 204 12 800794	10 8420
10011	Track point	2018-05-05	11:00:00.11	1024 184 12 799118	1134 204 12 800794	10 8420
10012	Track point	2018-05-05	11:00:00.12	1024 184 12 799118	1134 204 12 800794	10 8420
10013	Track point	2018-05-05	11:00:00.13	1024 184 12 799118	1134 204 12 800794	10 8420
10014	Track point	2018-05-05	11:00:00.14	1024 184 12 799118	1134 204 12 800794	10 8420
10015	Track point	2018-05-05	11:00:00.15	1024 184 12 799118	1134 204 12 800794	10 8420
10016	Track point	2018-05-05	11:00:00.16	1024 184 12 799118	1134 204 12 800794	10 8420
10017	Track point	2018-05-05	11:00:00.17	1024 184 12 799118	1134 204 12 800794	10 8420
10018	Track point	2018-05-05	11:00:00.18	1024 184 12 799118	1134 204 12 800794	10 8420
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10100	Track point	2018-05-05	11:00:01.00	1024 184 12 799118	1134 204 12 800794	10 8420

Geosolution does not only excel in the adjustment of topographic networks, it also has an advanced kinematic post-processing capability. Within a 15 km radius and with raw data collected for 5 minutes, the result of the PPK calculations can achieve and accuracy of within 4 cm. This can effectively compensate for RTK failures, especially in environments where radio link is intermittent.

## 3. UAV data processing



Geosolution features a dedicated UAV module for a quick and easy workflow in computing GNSS data from UAV-survey missions. The powerful UAV module allows trajectories to be processed quickly, and visualisation of the collected and post-processed data on a single interface.

## KEY FEATURES

- Covers the coordinate systems of nearly all countries and supports the import of GEOID files. Allows user-defined custom coordinate systems.
- IGS/CORS/Precise Ephemeris data download. Apply the IGS antenna information to process data from other leading brands. Download raw data from nearby CORS station directly into Geosolution for efficient processing.
- Least-Squares Adjustment. Geosolution's least-squares adjustment module takes as input the vector's solutions along with their corresponding covariance's matrix. This matrix is then used to weight the vector's solution in the adjustment, and obtain a unique set of coordinates as well as a valid representation of their accuracies.
- Various report formats to meet different project requirements. Geosolution can export .xml, .dxf, .dat and other different report formats.
- A powerful measurement tool which facilitates the management of your static data. Convert Rinex files, merge static data, download temporary satellite files.

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