GeoSynch™

SHIPMENT EVENT LOCATION & GPS CORRELATION SYSTEM

Instrumented Sensor Technology

- Adds GPS location correlation to virtually any existing IST EDR or SSP recorder—no recorder hardware modifications required.
- Automatically adds GPS latitude/longitude coordinates to DynaMax event table entries
- One GeoSynch module can be shared among multiple IST EDR and SSP recorders
- Robust, waterproof housing
- Weeks to months of battery powered operation
- No special antenna or cabling required
- Works with any existing EDRs/SSPs & DynaMax Software
- Does not use EDR power or memory
- Real-time reporting and shipment tracking
- Helps overcome GPS shielding caused by metal shipping containers
- Worldwide coverage
- Affordably priced



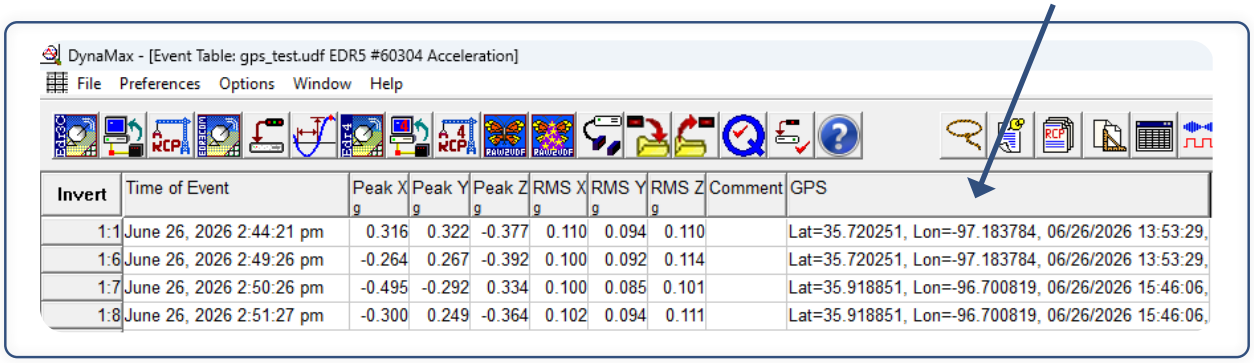
The GeoSynch™ event correlation system adds location awareness to existing and new IST EDR and SSP recorders, allowing recorded events to be automatically correlated with GPS location and route history within DynaMax Suite. Know where events occur as well as when. Easily analyze shipments and routes for hazardous handling activity. Pinpoint potential damage points. Where did this damaging shock occur? Which carrier terminal handled the shipment? Where did the vibration levels become excessive? Which route caused the problem? GeoSynch™ gives transportation engineers the information they need to identify where damaging events occurred and improve packaging, routing, and shipment reliability. Ideal for transportation studies, high-value cargo monitoring, packaging evaluation, warranty investigations, and logistics optimization.

GeoSynch™ also provides real-time online tracking and records GPS location history files for automatic correlation with EDR/SSP event data. Tracking files are downloaded and automatically imported into DynaMax Suite for event table time-synchronized integration. The tracking and location data becomes a permanent part of the EDR/SSP (.udf) data file. DynaMax UDF file tracking data integration is carried out using the included GeoSynchTM data transfer software package along with the DynaMax GPS import function available in DynaMax Suite.

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GPS Event Correlation



Invert	Time of Event	Peak X g	Peak Y g	Peak Z g	RMS X g	RMS Y g	RMS Z g	Comment	GPS
1:1	June 26, 2026 2:44:21 pm	0.316	0.322	-0.377	0.110	0.094	0.110		Lat=35.720251, Lon=-97.183784, 06/26/2026 13:53:29,
1:6	June 26, 2026 2:49:26 pm	-0.264	0.267	-0.392	0.100	0.092	0.114		Lat=35.720251, Lon=-97.183784, 06/26/2026 13:53:29,
1:7	June 26, 2026 2:50:26 pm	-0.495	-0.292	0.334	0.100	0.085	0.101		Lat=35.918851, Lon=-96.700819, 06/26/2026 15:46:06,
1:8	June 26, 2026 2:51:27 pm	-0.300	0.249	-0.364	0.102	0.094	0.111		Lat=35.918851, Lon=-96.700819, 06/26/2026 15:46:06,

DynaMax Event Table View Showing Correlated GPS Location Data

The GeoSynch™ event correlation system uses the Trachimo GPS transceiver. A separate, modest service subscription is required for cellular tracking and route-history services. Current plans start at approximately $8/month with an annual on-line subscription.

GeoSynch™ Module Transceiver Specifications

Operational

- Worldwide LTE coverage
- < 5 m GPS accuracy with open sky
- Tracking Rate is user selectable from 1 min to 120 minutes with sleep mode feature option.
- Location acquisition time from 4 – 24 seconds depending on initial conditions
- Built-in antenna
- Selectable location updates from minutes to Hours
- Battery life up to 270 days depending on update frequency
- Rechargeable battery
- Rugged, waterproof housing
- USB-C charging

Physical and Environmental

- Operational temperature: -20˚ C to +60˚C
- Humidity: 95%RH @ 50˚C Non-condensing
- Dimensions: 90 mm x 63 mm x 37 mm
- Weight: 0.58 lb

Tracking Applications Features

- Maps
- Real time updates
- Transportation route history: user selectable time period up to 365 days
- Unlimited number of track samples

Included With the GeoSynch™ Package

- GeoSynch GPS transceiver & manual
- Battery charger
- Mounting hardware
- GeoSynchTM GPS data transfer software package

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