



Enhancing Lane Marking Accuracy with RTK Services



Introduction

At LimnTech Scientific, we utilize Real-Time Kinematic (RTK) services to significantly improve the accuracy of lane marking—both laterally and longitudinally. RTK technology ensures precision, helping deliver high-quality results on every project.



How RTK Services Work

RTK services use correction signals from local GPS base stations to enhance positioning accuracy. This precision is critical for maintaining proper lane alignment and spacing—even across long distances.



RTK Subscription Options

RTK services are typically subscription-based, with pricing that varies by provider and plan. Common options include:

- Per-Minute Fees: Pay only for actual usage time.
- Flat-Rate Subscriptions: Unlimited use during the subscription period.
- State-Provided Services: Some states offer free RTK access, though coverage varies.



Cellular Connectivity

RTK services require a reliable cellular connection. We use Verizon by default for dependable coverage through integrated cellular modems. If Verizon coverage is



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limited in your project area, alternative networks are available upon request. (Note: Hardware or service fees may vary based on provider.)

Our Default RTK Service – SmartNet

We default to SmartNet, the leading RTK service in the U.S., offering:

- Nationwide coverage
- Per-minute billing — you only pay when it's in use
- No ongoing fees when not active

This makes SmartNet a flexible and cost-efficient solution for most projects.

 SmartNet Coverage Map: https://www.smartnetna.com/coverage_network.cfm

Why Coverage Maps Matter

RTK service coverage depends on both location and provider. Before mobilizing to a job site, review the coverage map of your RTK provider to ensure connectivity and performance.

Supplemental RTK Services

If SmartNet does not meet your needs, our team can help you access other providers. Depending on your choice, additional or upgraded hardware may be required.



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Alternative RTK Providers & Coverage Maps

Need Help Choosing a Service?

Contact our team for help identifying the best RTK service for your region or project scope. We'll ensure your system is set up with the right provider for optimal accuracy and cost control.

Provider Links

AZGPS: <https://azgps.net/>

DigiFarm: <https://digifarm.com/coverage-map-2/>

KeyNetGPS: <https://vrs.keynetgps.com/Map/SensorMap.aspx>

MaineDOT CORS: <https://mdotcors.maine.gov/Map/SensorMap.aspx>

Mesa County CO: <http://rtvrn.mesacounty.us/Map/SensorMap.aspx>

MoDOT: <https://gpsweb3.modot.mo.gov/Map/SensorMap.aspx>

ODOT: <https://ortn.dot.state.oh.us/TrimblePivotWeb/Map/SensorMap.aspx>

Topcon: <https://rtkamericas.topnetlive.com/usa/networks/topnet-live-americas>

UK Trimble VRS Now: <https://vrsnow.co.uk/Map/SensorMap.aspx>

Vermont VTrans: <http://20.185.11.35/Map/SensorMap.aspx>

SmartNet: https://www.smartnetna.com/coverage_network.cfm