

FOR IMMEDIATE RELEASE

Bohr Electronics Introduces Bundled Real-Time Kinematic (RTK) System for Precision Rail Positioning



**Real-Time Kinematics (RTK)
Base Station (F3552)**



**Precision Navigation Module/
Onboard Network (PNM/OBN)
(F3626-24 or -74)**



**GNSS & Radio
Antenna Systems**

CHATTANOOGA, Tenn., June 24, 2025 — Bohr Electronics today introduced a fully integrated Real-Time Kinematic (RTK) System for rail, combining proven precision GPS technology with the simplicity of a bundled, ready-to-deploy solution. While RTK isn't new to the industry, this marks the first time it's been packaged specifically for rail applications in a comprehensive, modular offering.

Developed under Bohr's Central Railway Manufacturing (CRM) product line, the system is designed to deliver centimeter-level accuracy — supporting safer train operations, improved asset tracking, and more responsive maintenance strategies.

Built on the CRM Enabling Technologies platform, the RTK System includes:

- RTK Base Station (F3552) – A GNSS reference receiver providing real-time correction data via Ethernet, Wi-Fi, or cellular. Designed with robust redundancy and support for NTRIP casters like SNIP®, it enables precise, distributed positioning.
- Precision Navigation Module / Onboard Network (PNM/OBN, F3626-24 or -74) – A locomotive-mounted unit with survey-grade GNSS, edge processing, inertial backup, and support for AAR S-9102 and S-9103 protocols.
- Antenna Systems – GNSS and radio antennas optimized for consistent performance—even in GPS-limited environments such as tunnels, railyards, and dense urban corridors.

-more-

“The way we’re delivering RTK technology is new,” said Dillon Steen, CRM project manager at Bohr Electronics. “We’ve taken all the core components – base station, onboard module, antennas – and bundled them into one integrated system. No guesswork. It’s purpose-built for rail.”

The system is optimized for both freight and transit rail and supports advanced applications such as precision geofencing, automated location tracking, predictive maintenance, and tighter headway management.

The RTK System is now available for deployment and integration with onboard and wayside systems. It will be featured at APTA Rail Conference 2025, June 29-July 2, Booth 516.

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Learn more and download our RTK System tech data sheet: <https://bit.ly/3HSdtsm>

About Bohr Electronics

Bohr Electronics, an Alderman Enterprises company, has been a supplier of in-cab electronics for the rail industry since 1957. The company specializes in manufacturing and engineering solutions for legacy locomotive electrical, mechanical, and electromechanical parts and components, as well as data and reporting devices. Through its Central Railway Manufacturing (CRM) product line, Bohr designs and manufactures custom USA-made onboard and wayside electronic equipment for data gathering, recording, networking, and communication. Headquartered in Chattanooga, Tennessee, with a production facility in Searcy, Arkansas, Bohr Electronics supports Class I, regional, shortline, and passenger rail operators.

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