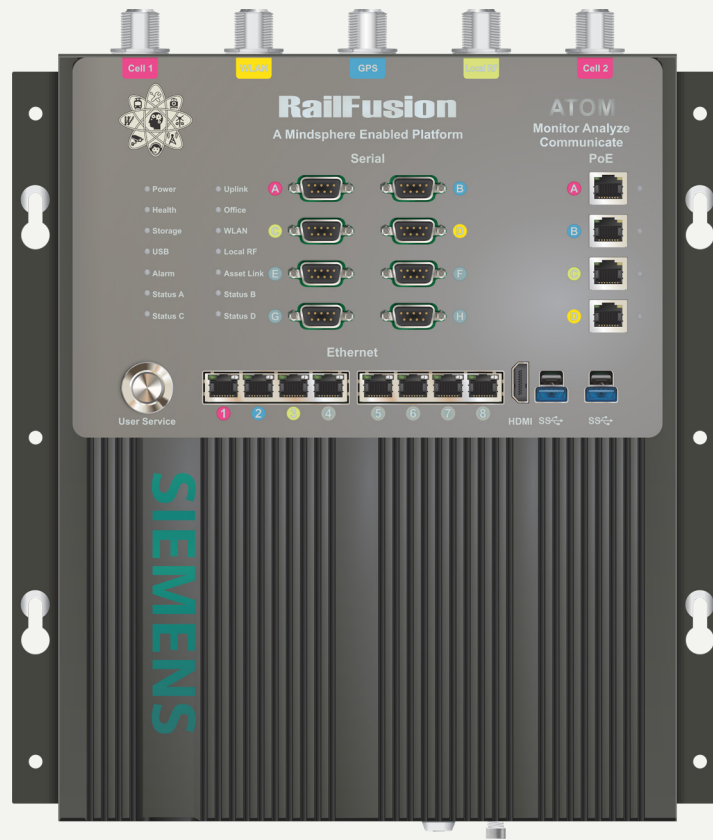




SIEMENS MOBILITY

RailFusion ATOM

The Siemens RailFusion ATOM is a standalone versatile edge computing gateway, which can do everything from integrating field equipment with office systems, such as the RailFusion Intelligent Asset Management Platform or customer back-office environments, to distributed processing and custom applications for field infrastructure.

The ATOM can be expanded and customized with software applications to perform numerous functions from interfacing between equipment found in crossings, communications environments, and control points, to handling local and wide-area networking with landline, RF, cellular, and satellite communications, routing seamlessly between different protocols and media types. When combined with a back-office platform and remotely downloadable applications, the ATOM can provide a variety of remote diagnostics and analytics features, as well as other custom solutions, securely accessible from any web browser or mobile device.



With decades of combined experience in the rail industry, the Siemens Software Solutions Team designed the RailFusion ATOM from the perspective of maintenance and operations personnel who are responsible for managing and supporting wayside equipment, with the goal of supporting a wide variety of applications. These insights lead to a set of flexible core features including:

- 14 LEDs capable of displaying status using any color, brightness, fade, or flash
- User Service Button with integrated LED ring, for on-site presence and feedback
- 2 locking USB ports, capable of connecting with both version 2 and 3 accessories
- 8 Gigabit Ethernet ports – 5 switched, 3 isolated for networking and routing
- Dual LTE cellular, Bluetooth, WiFi, and GPS built-in, other custom options available
- 8 configurable serial ports, supporting RS-232, RS-422, and RS-485
- 4 powered Ethernet ports (PoE) supporting devices like video cameras (optional)
- Up to 4 TB solid state storage supporting features like analytics & video (optional)
- 2 inputs and 2 outputs for low-voltage non-vital triggers such as door alarms
- Built-in isolated power supply, supporting a range of 9-36V
- 12V isolated power output for connecting low-power accessories
- Meets AREMA environmental specs including temperature and power isolation

The Siemens RailFusion Atom is designed to be configured remotely using built-in or customer supplied connectivity, and can connect with existing customer solutions and/or leverage the Siemens RailFusion Intelligent Asset Management Platform. Through custom and native applications running on the ATOM, powerful capabilities will become possible, such as:

- Remote monitoring, event log retrieval, status, and health
- Configuration management, software version control, and firmware updates
- Trending and analytics enabling predictive and prescriptive maintenance
- Video recording, video-to-event correlation, and live video streaming
- Virtual inspections, railroad health assessment, and live support
- Application logic updates, remote interaction with connected devices
- Custom software applications to consolidate functionality and solve problems

The Siemens Software Solutions Team supports the RailFusion ATOM and the RailFusion Platform. These hardware and software solutions are being promoted throughout North America for rail customers needing to manage their remote distributed assets and solve unique problems. Please contact your local Siemens Customer Services representative for additional information, including demonstrations, presentations, or pricing.

Siemens Mobility, Inc.
One Penn Plaza
11th Floor, Suite 1100
New York, NY 10119
United States

Contact for information:
Rolling Stock Rail Plant, Sacramento, CA 95828
siemensmobility.us@siemens.com

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The Siemens logo, consisting of the word "SIEMENS" in a bold, blue, sans-serif typeface.