

By focusing on the unique needs of each customer, Central Railway Manufacturing has worked with leaders in the freight transportation industry to turn their energy management visions into a reality.

Remote Idle Gateway

Central Railway Manufacturing's portfolio includes RIG, which provides the capability to remotely set the throttles of any number of trailing locomotives in a multiple unit consist to idle. In this mode, RIG is a cost-effective approach to saving fuel and reducing emissions as part of a flexible yet cohesive energy management strategy.

Based on TAG technology...

RIG and the Throttle Assist Gateway provide a stand-alone communications-based physical control stand interface to allow a host computer to access and control locomotive throttles. Signals from the control stand and train-line are intercepted, and are either passed through to the local governor or blocked while the throttle commands set by the host computer are asserted onto the governor valves. This allows individual throttle control of each locomotive in the multiple unit consist.

As part of a broader energy management solution, TAG allows control of the train-line throttle signals and incorporates dynamic brake signals which are wired in parallel with the locomotive control stand and train-line signals. RIG, however, provides a straight-forward throttle-only approach to energy management.

The TAG-based technology in RIG has been field-proven with New York Air Brake's revolutionary LEADER™ freight train energy management system.



Fuel savings at your fingertips...

RIG can accept commands from any Ethernet-based host that can implement industry-standard AAR Class D EMP messaging, ensuring flexibility and ease of integration into existing on-board networks. With this messaging interface, RIG empowers the deployment of energy management applications such as geo-fenced (GPS-based) remote idle constraints.

For applications without an on-board network, RIG can be deployed with Central Railway Manufacturing's Engineer Assist Screen. EAS is designed specifically to enable RIG applications, instantly enabling visibility and control of all RIGs connected within an MU consist. From EAS in the lead locomotive, the engineer can command one or any RIG-enabled trailing locomotives into idle utilizing RIGs integrated train-line communications, while also monitoring real-time train-line signals such as the throttles and dynamic brake with an intuitive display.

For ease of installation, RIG is available with LSI rack or wall mounting options.