The energy market is one of the most crucial industry sectors enabling our everyday lives. It requires constant development and innovation to make it more accessible and efficient. Industrial Internet of Things is a movement towards more connectivity & control in every aspect of industry digitization, and the energy industry is no exception.

Fundamentally, energy infrastructure consists of production & transmission. Nuclear, coal, gas energy plants and renewable energy installations together generate electricity and transmit it to the grid using series of high, medium and low voltage stations and substations eventually bringing power to homes and businesses around the world. All steps of production and transmission must be closely monitored and controlled to make sure the infrastructure is producing enough power that is distributed efficiently throughout the energy network. All of this would not be possible if all components of the grid would not be connected and controlled centrally by professional engineers and advanced SCADA systems. Substations have complex automation network that is managed by a substation controller. To enable smart grid, these must be connected to the central SCADA system via the Internet. Even when wired Internet connectivity is available, it is impossible to ensure 100% uptime which is required to be in control of the whole power generation and transmission infrastructure.
WHY TELTONIKA?

TRB142 encompasses robust functionality and performance in a small and cost-efficient form factor. It follows the same product development philosophy as other much more sophisticated devices from Teltonika Networks portfolio; these gateways are reliable, secure and easy to use. Our industrial cellular gateways and routers are empowering thousands of smart grid infrastructure components around the globe. Contact us to find out more!