

SIEMENS
Ingenuity for life



One Router.
A Cloud of Possibilities.
RUGGEDCOM RX1400 with MindConnect

siemens.com/vpe1400

Digitalization is transforming industries such as electric power generation and distribution, transportation, and oil & gas. As a result, there is significant progress being made in networking between operational production networks and enterprise IT. Production data can be collected and analyzed in the cloud, in management systems or directly on the edge of your network to monitor assets and optimize operations.

Connecting and aggregating data from existing production networks presents a major challenge, since these often consist of equipment from multiple vendors which use different data languages and/or protocols. In addition, the collected data also needs to be transferred to the systems

capable of analyzing it. Addressing challenges like collecting and pre-processing of the production data in existing applications before it can be sent over a network can become time consuming, difficult, and costly.

An industrial IoT gateway, such as the RUGGEDCOM RX1400 with MindConnect, has the potential to be the single answer to all the challenges above. It doubles as a network device and can connect to various data sources, pre-process the data and send the analyzed data directly to the recipients, without the need to implement any additional hardware. The RUGGEDCOM RX1400 with MindConnect makes it possible to implement future-oriented concepts even in existing production environments.

Intelligent Networks. Anywhere.
The RUGGEDCOM RX1400 at a glance:

- Rugged router with integrated ethernet, fiber optic, cellular, WLAN and serial interfaces
- Virtualization allows a Linux operating system and applications to run in parallel with the RUGGEDCOM ROX II operating system
- Built-to-order to ensure perfect product fit to your application
- Compact form factor with multiple mounting options
- Proven functionality in the harshest of environments
- All-in-one solution for plug-and-play connectivity to MindSphere

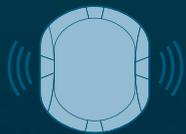


4 Secure transfer to connected IT systems



5 Monitoring, evaluation and optimization of production in the cloud

3 Data pre-processing enabling analytics at the edge of the network as close to the source as possible



2 Conversion to required protocol

1 Collection and compression of relevant production data from different sources



Sample Applications



Preventive Maintenance

Collection and analysis of data such as rotational speed and operating time to determine the appropriate maintenance window for a asset based on use.

Fleet Management

Send the pre-processed data into MindSphere – the cloud-based, open IoT operating system from Siemens and always get an up-to-date overview of your data through one of the MindApps.

The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

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