

Siemens extends Ruggedcom portfolio with a PRP/HSR module for enhanced reliability of industrial networks

- **Seamless redundancy and high precision time synchronization from a single device**
- **Easy migration to highly reliable networks with zero packet loss**
- **Minimal downtime and reduced risk of communication disruptions**
- **Specifically designed for modern digital substation applications**

Siemens has introduced a new line module for the Ruggedcom RST2228 and RST2228P Layer 2 19" rack switches, the Ruggedcom RMM2972-2RNA. This module strengthens the Ruggedcom RST2228 19" rack switch offering to the electric power utilities by providing seamless redundancy with PRP/HSR (Parallel Redundancy Protocol/High-availability Seamless Redundancy), enhanced IEEE1588 implementation, high bandwidth uplinks, and traffic filtering and segmentation from a single device. This module eliminates network downtime due to single points of fault, resulting in high reliability and availability for modern digital substation applications as mandated by the IEC 61850 standard.

The RMM2972-2RNA module plugs into either slot 1 or slot 2 of the RST2228 device and allows it to participate in PRP/HSR networks that deliver 0 ms recovery time and zero packet loss. Its interfaces include PRP/HSR ports A & B that support speeds of up to 1000 Mbit/s. Ruggedcom RST2228 with the RMM2972-2RNA functions as a PRP/HSR Redundancy Box (RedBox) that can support up to 24 legacy SAN (Singly Attached Nodes) devices. With two such modules, it can function as a QuadBox, a device that connects two HSR rings together. It also

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supports coupling between different redundant topologies. Furthermore, any industrial network with pre-existing RUGGEDCOM RST2228 switches using MRP or RSTP protocols can now be easily migrated to the HSR protocol.

Multiple redundant configurations supported by this module allow for a simpler network design with fewer number of devices, and lower operating costs, while significantly improving the overall network performance. The utility-grade design of this module means it can operate between -40 to +85 °C and can withstand high levels of electromagnetic and radio frequency interference, making it an essential network component for mission critical networks in harsh environments, especially as those seen in electric power utilities.

This press release and a press picture, please see

<https://sie.ag/36kE8FY>

More information is available at www.siemens.com/rst2228

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