

2 Rugged Managed Switch

The RuggedSwitch® RSG2300 is an industrially hardened, fully managed, modular Ethernet switch specifically designed to operate reliably in electrically harsh and climatically demanding utility substation and industrial environments.

The RSG2300's ruggedized hardware design coupled with the embedded Rugged Operating System (ROS™) provides improved system reliability and advanced cyber security and networking features making it ideally suited for creating secure Ethernet networks for mission critical, real-time control applications.

The RSG2300's modular flexibility offers 10BaseFL /100BaseFX /1000BaseX fiber and 10/100/1000BaseTX copper port combinations. It is packaged in a rugged galvanized steel enclosure with industrial grade DIN panel or 19" rack-mount mounting options.



3 2009 IEEE Fellow

Achievement Recognition

Recognizing the achievements of its members is an important part of the mission of the IEEE. Each year, following a rigorous evaluation procedure, the IEEE Fellow Committee recommends a select group of recipients for one of the Institute's most prestigious honors, elevation to IEEE Fellow.

The IEEE Board of Directors, at its meeting on 12 November 2008, elevated Dr. Alexander Apostolov to IEEE Fellow, effective 1 January



2009, with the following citation: for contributions to use of digital

computers for power system protection, communication, and operation.

4 MiCOM P847 Phasor Measurement Unit



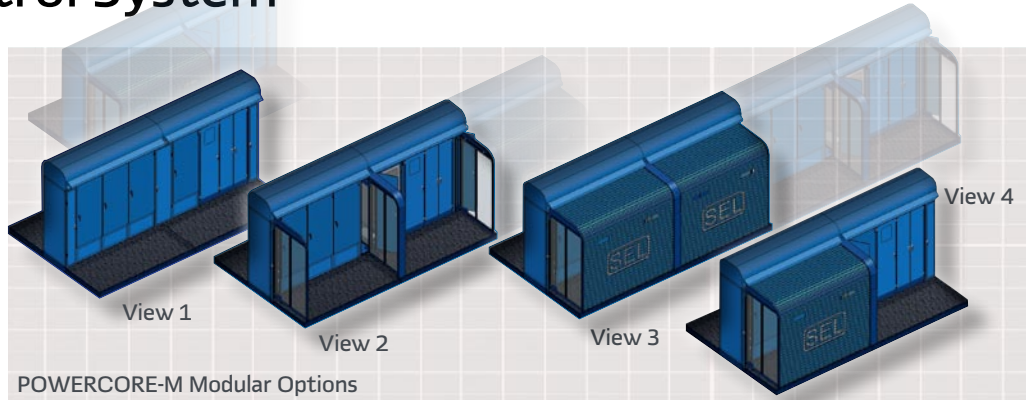
AREVA's MiCOM P847 PMU (Phasor Measurement Unit) modules can be applied to monitor strategic busses and corridors in the transmission system. The applications include On-line and offline wide area monitoring and analysis systems as well as Real time stability control.

The P847 has a set of VTs and CTs used for phasor measurements. Additional system protection functions such as frequency, voltage, circuit breaker monitoring and recording functions are included in the P847 device.

In an advanced setting, this technology complements traditional SCADA in enhancing operator decision making from a reactive to a more response based decision process.

8 POWERCORE-M™ New Modular, Space-Saving Substation Control System

POWERCORE-M™, an innovation in control house design from Schweitzer Engineering Laboratories (SEL), is a rugged, NEMA 3R compliant, modular substation control system ready for immediate installation and use. This low maintenance, modular enclosure system takes up half the space of conventional units, still allowing plenty of room for testing and operation. Featuring completely engineered and tested panels,



POWERCORE-M is available for generation, transmission, and distribution applications. It includes

all communications, automation, protection, and control equipment for new installations and can easily replace existing, site-built

control houses. Future expansion in the substation yard is easy; just add or replace protection enclosures as needed.

9 IEC 61850 based Substation Automation System

Toshiba announces the availability of its Substation Automation System (SAS) GSC1000, compliant with the IEC 61850 standard for substation communications. All devices used within the SAS such as Bay Control Units and Protection Relays have been certified IEC 61850 compliant by KEMA. The new SAS is equipped with all of the essential functions required for application at all voltage levels and in addition provides advanced functions such as automatic synchronization for split power systems, power quality monitoring and power apparatus monitoring in order to enhance the security and reliability of the power system.

