SICAM AK 3

Enhancement of the proven flexible automation unit SICAM AK

Versatile in use and performance

SICAM AK 3 is extremely flexible and powerful thanks to the modular, consistent SICAM system architecture. The SICAM AK 3 provides a multitude of possibilities for the automation of widely distributed processes, and is the most powerful device of the SICAM RTUs product family in terms of communication, automation functionality and redundancy. Automation, telecontrol, and communication functions can be easily combined in full compliance with IEC 61850.

Evolutionary enhancement

The SICAM AK 3 scores points not only with its improved mechanical design but also with significantly simplified hardware components combined with higher performance:
A more powerful power supply (optionally in redundant configuration) is as much part of the systematic enhancement as the integration of two network interfaces on the CPU boards (can be extended to up to four interfaces). Additional connection cards and patch plugs are no longer needed.

Rely on experience

All existing and proven SICAM AK system concepts and functions, from redundancy to automatic data flow to SICAM Safety, and many more, are still available in the SICAM AK 3 - the third AK generation.
Like all products of the SICAM RTUs system family, the SICAM AK 3 can be also parameterized with the SICAM TOOLBOX II object-oriented engineering software.

More security for your system

Automation devices in critical infrastructure applications have to meet stringent and continuously evolving requirements with regard to cybersecurity.

SICAM AK 3 (design: 17-slot rack)

The SICAM AK 3 has been enhanced in this respect, too, and equipped with new security features:

- User identification at the device

- Encrypted end-to-end communication during remote maintenance through SICAM TOOLBOX II (preparation for process communication)

- Security log book to communicate security-relevant events to a central location via Syslog

- Stress test of each firmware release to ensure continued availability in the worst-case scenario of denial of service attacks

- Application layer firewall provided by two physical Ethernet ports for complete decoupling of networks

Flexible and powerful

Enhancements at a glance

Based on the proven SICAM AK system, the new SICAM AK 3 has been equipped with the following additional features:

- Improved mechanical design

- New power supply (120W), optionally redundant

- New, more powerful master CPU (CP-2016) and C-CPU (CP-2019)

- Integrated Ethernet interfaces on the CP-2016 and CP-2019

- Higher availability combined with greater performance

- Reuse of peripheral modules

- Remote maintenance via encrypted end-to-end security
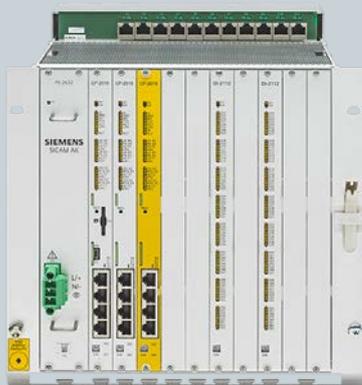
- BDEW and NERC CIP compliant

The SICAM AK 3 is a practical all-rounder with many advantages for you to profit from:

- Flexible use as an automation, telecontrol and substation control unit, and as a data node for widely distributed processes

- Wide range of communication interfaces allows integration into any system

- Simple engineering and easy maintenance save time and costs

- Unchanged engineering using the proven SICAM TOOLBOX II

- Storage of parameters and firmware on SD card

- Plug and play for spare parts without engineering tool

- New optimized rack

Applications

- Power generation, transmission and distribution, industrial networks, microgrids, traction power supply, automation of tunnels, oil & gas pipelines