



ENERGY AUTOMATION PRODUCTS

SICAM 8 – Automation Platform for versatile application

SICAM 8 – the logical further development of the successful SICAM A8000-series
[siemens.com/sicam8](https://www.siemens.com/sicam8)

The new SICAM 8 Power Automation Platform is a pioneering contribution from us for the next step into the future!

SICAM 8 supports with

- Measures to achieve climate goals:
 - Expansion of renewable energies
 - Integration of renewable energies
 - Faster expansion of existing infrastructure
- Meeting the increasing demands of cybersecurity:
 - Holistic cybersecurity solutions
 - Competence around energy automation
- Mitigating the shortage of skilled personnel:
 - Reduced know-how requirement
 - Performance with minimized personnel

What is SICAM 8

SICAM 8 provides a universal, hardware and software based, all-in-one platform.

This enables you to meet all practical requirements in the field of energy supply.

Behind the Power Automation platform lies the following structure:

- SICAM 8 Core is responsible for:
 - Security functions
 - Time synchronization
 - Certificate and application management
- SICAM 8 Software divided into SICAM 8 applications and SICAM 8 Controller applications
 - SICAM S8000 (RTU, comm. protocols, Soft-PLC)
 - SICAM HMI (control and monitor)
 - SICAM EVA (event & alarm list)
 - SICAM Web (diagnosis, monitoring and simulation)
 - SICAM Applications (SIAPPs)
 - SICAM DLM Dynamic Load Management, SICAM MGC Microgrid Control, SICAM PPC Photovoltaic Plant Control, SICAM LS Load Shedding, SICAM SOG Self optimizing Grid*
- SICAM 8 hardware, based on Linux, consists of modules and devices of the SICAM A8000 series and now new industrial PCs of different manufacturers
 - SICAM A8000 CP-8050/8031, PS-, CI- and I/O Modules
 - SICAM Rack Modules (for high data volume)
 - SICAM EGS (Enhanced Grid Sensor) combination of measuring device and RTU-Gateway for MS- and NS*
 - Third-party industrial PCs with Linux operating system

SICAM 8 Use Cases

Hydro power plant

- Turbine controls, sequence controls or switch interlocks with the aid of the integrated logic functions
- Processing and bundling of information for control centers and neighboring substations

Solar and onshore windparks

As a bidirectional link between the grid control center and wind or solar farms

- Information about e.g. the current power flow to the grid control center
- Operation of your feed-in controller from the grid control center

Power transmission

- For this application, substation automation is an essential requirement
- SICAM A8000 CP-8050 is designed for this task, processes and bundles information for control centers and neighboring substations

Power distribution

Monitoring and control of overhead line or cable distribution grids

- Distribution grid transformers with low-voltage feeders
- Control of transformer tap changers

Industry

SICAM 8 supports the on-demand supply, distribution and monitoring of electrical power

- Energy automation system from the power supplier's feed-in to the low-voltage distribution level

Offshore windparks

More universally applicable with the new SICAM S8000 software variant

- Hardware independent through IPC applications
- Marine certified solutions for offshore operations

IoT

Increasing grid availability and service quality for power grids

Data node / Gateway

- Communication gateway for RTU networks based on completely different network and communication protocols

Railway power supply

- Automation of railway power supply starting with the control system, through protection to communication



With SICAM 8, we deliver a product for practitioners - our contribution to a stable, environmentally conscious energy supply, grown through our many years of project experience, optimized in product development!

Our tip

Register in the Industry Mall, create an account and benefit fully from our SICAM Function Points Manager.

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