



ENERGY AUTOMATION PRODUCTS

SICAM 8 - Automation platform for a wide range of applications

siemens.com/sicam8

The long-range platform SICAM 8 is the logical evolution of the successful SICAM A8000 series and a ground-breaking contribution to the next step into the future! With SICAM 8, you gain access to a universal, modular platform that seamlessly integrates hardware and software. The SICAM 8 portfolio is tailored for practical applications – designed to ensure a stable, environmentally friendly energy supply, backed by years of project expertise, and refined through optimized product development.

Your Benefits with SICAM 8



Achieving Climate Goals

- Expansion & integration of renewable energies
- Faster expansion of existing infrastructure



Addressing Cybersecurity Challenges

- Holistic cybersecurity solutions
- Competence in energy automation



Tackling Skilled Worker Shortages

- Reduced know-how requirements
- One engineering tool for all SICAM 8 applications

The SICAM 8 Portfolio

Hardware Runtime Products

- SICAM A8000
- SICAM EGS

Software Runtime Products

- SICAM S8000 Virtualized
- SICAM S8000 on IPC

Tools

- SICAM Device Manager (Engineering Tool)
- SICAM Function Point Manager (Management Tool)
- SICAM Web (Online Tool)

Applications

- Visualization & Operation
- Automation & Telecontrol
- Communication

SICAM 8 Control Applications

- SICAM DLM (Dynamic Load Management)
- SICAM LS (Load Shedding for industrial grids)
- SICAM PPC Compact (Photovoltaic Plant Control)
- SICAM MGC (Microgrid Control)
- SICAM SOG (Self-Optimizing Grids)

SICAM SIAPP

(container to deploy 3rd party applications on SICAM 8)

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SICAM 8 Use Cases

Hydro power plant

The SICAM A8000 CP-8050 is designed for this task with its remote I/O line for direct field connectivity to sensors and actors, supporting direct CT/VT connections and redundancy for the highest reliability

- 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

Power plant controller for PV integration

SICAM PPC Compact serves 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
- Achieving grid code compliant PV plant connection & control, fulfilling highest security standards

Power distribution

Monitoring and control of overhead line or cable distribution grids

- SICAM EGS & SICAM A8000 CP-8010/12
- Medium-voltage switchgear
- Distribution grid transformers with low-voltage feeders
- Control of transformer tap changes
- Self healing grid
- Better utilization of existing grids with automated reconfiguration of medium-voltage rings

Power transmission

For this application, substation automation is an essential requirement

- SICAM S8000 & SICAM A8000 CP-8050 are designed for this task, processes and bundles information for control centers and neighboring substations
- Reduce CAPEX/OPEX by combining multiple tasks into a single device (e.g., HMI, encryption, network security / firewall, network redundancy, etc.)
- The SICAM A8000's input for a 110/220VDC station power supply minimizes the need for additional hardware equipment

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Offshore windparks

More universally applicable with the new SICAM S8000 software variant

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

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
- SICAM S8000 & SICAM A8000 CP-8050/31 are designed for offering all-in-one solutions incl. onboard HMI, optimizing CAPEX & OPEX

Railway power supply

More efficient and versatile with the modular SICAM A8000 system

- Automation of railway power supply starting with the control system, through protection to communication
- Remote I/O lines for direct field connectivity on sensors & actors, supporting direct CT/VT connection optimizes CAPEX / OPEX and with the versatile use & modularity of SICAM A8000 spare parts for different applications can be reduced

IoT and Data node / Gateway

IoT Gateway and automation device for all Electrification X feature sets

- Increasing grid availability and service quality for power grids
- Communication gateway for OT networks based on completely different network and communication protocols

EV charging hub control

Manage global EV Charging networks economically

- Station uptime is increased by station and charger monitoring and remote control
- Customer revenue and satisfaction of EV drivers through maximum charging current
- Costly peak load limit violations are avoided with Dynamic Load Management Setpoints

 Catalog: SICAM Substation Automation

 Webinar series: SICAM 8 - Power Automation Platform