

SIEMENS

Ingenuity for life

RetroFit with SICAM A8000

Fit for IP technology and cyber security by replacing parts

www.siemens.com/sicam-a8000

How safe are your remote terminal units really?

Secure and fast communication of remote terminal units (RTUs) is essential to guaranteeing a secure and reliable electrical energy system in today's challenging complex electrical networks.

SICAM A8000 offers you the possibility of using the benefits of the new IP technology while ensuring total security.

And all this with your existing components from the SICAM MIC and TM1703MIC series.

You just have to replace the master control and power supply module of the existing RTU with the new SICAM A8000 CP and PS modules – all other components remain the same.

This is all it takes to prepare your system for the integration into your IT network and to protect it against cyber attacks.

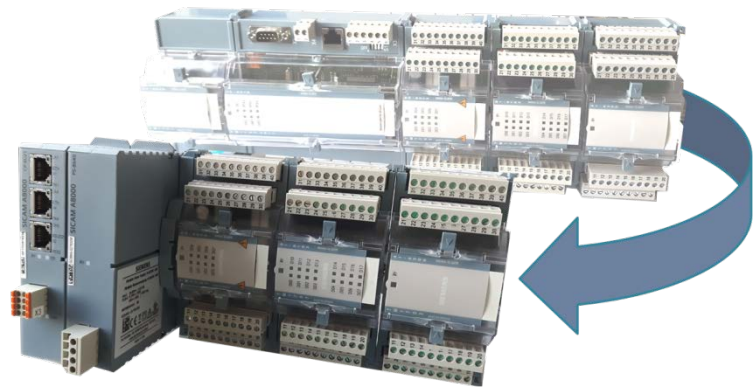
With the free firmware updates, Siemens makes sure you stay on top of your cyber security.

These downloads are available in our SIOS portal. Register here for access to the SIOS portal if you haven't already:

<https://support.industry.siemens.com>

The small installation footprint is a other practical feature that cannot be underestimated:

Exchanging the SICAM EMIC (CP-6010) with the respective power supply module (PS-66xx) results in 129 mm of saved space on the DIN rail. You can use this extra space for a maximum of 2 TM IO modules.



Take advantage of the benefits

- Addressing cyber security requirements such as BDEW Whitepaper, NERC CIP and IEC 62351 with support for RADIUS, Syslog, IPSec and TLS
- Cost-efficient upgrade of your RTUs to the latest state of the art
- Use of the existing TM IO modules, resulting in reduced spare parts requirements
- Fast retrofitting with a minimum of interference with existing wiring
- Use of existing communication lines
- Power supply modules for almost any auxiliary voltage
- Configuration with SICAM TOOLBOX II, SICAM WEB or SICAM Device Manager

Reliable and efficient

SICAM A8000 device characteristics

Communication interfaces and protocols

- 2 x RJ45 (Ethernet)
- 1 x RS 232, 1 x RS 485
- 1 x RS 232 / 485, selectable (CP-8022)
- 1 x GPRS (CP-8022)
- IEC 60870-5-101/-103/-104, Modbus RTU
- IEC 61850 Ed1/Ed2 Client & Server incl. GOOSE
- DNP3.0 Master/Slave serial, TCP/IP
- Further protocols on request

Operation and display

- CP-8000: Local operation with 4 function keys and display (128x96 pixels)
- Power, ready and error LED, status LEDs of communication interfaces

Real-time clock

- +/- 2 ppm, time synchronization via SNTP, NTP

Electromagnetic compatibility

- IEC 60870-2-1, IEC 61010, IEC 60255-5, IEC 61000-4, EN 55022, CE marking

IT security

- IPSec, RADIUS-based RBAC, Syslog, https, TLS-secured IEC104 as per IEC62351, SNMv3

Auxiliary voltage

- DC 18 – 78 V PS-8620 / CP-8000
- DC 83 – 286 V PS-8622



Inputs/outputs

- CP-8000: max. 116 I/Os with up to 6 expansion modules
- CP-8021, CP-8022: max. 128 I/Os with up to 8 expansion modules

Temperature range

- From -40°C to +70°C

Housing specification (basic unit)

- Plastic housing for DIN rail mounting
- Dimensions CP-8000: 128x124x123 mm (W / H / D)
- Dimensions CP-8021/22: 30x132x124 mm (W / H / D)

Special features

- Integrated web server for configuration and diagnostics
- Data storage via SD memory card (storage of parameters and device firmware)
- Freely programmable user programs as per IEC 61131-3
- UL certified modules



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For all products using security features of OpenSSL, the following shall apply:

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (www.openssl.org) and cryptographic software written by Eric Young (ey@cryptsoft.com).