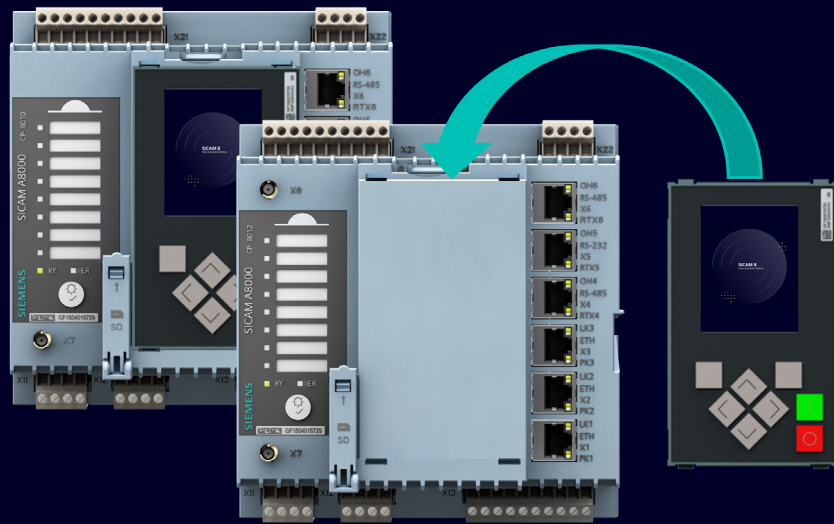


Member of
the platform
SICAM 8



ENERGY AUTOMATION PRODUCTS

SICAM A8000 CP-8010/8012

Operation, telecontrol, and automation

Compact field control units for power automation

[siemens.com/sicam 8](https://www.siemens.com/sicam8)

Wherever energy flows

The SICAM A8000 is a range of devices with an extensive portfolio in all areas of energy automation. The new compact RTU series SICAM A8000 CP-8010/12 is based on the SICAM 8 platform. Used in low-voltage and medium-voltage switchgear, it is optimized for controlling and monitoring power distribution, i.e. as distribution grid automation.

Your benefits with SICAM A8000 CP-8010/8012

- The series from the SICAM 8 platform reduces the number of different systems in your network and thus minimizes maintenance work and costs, warehousing and training costs for operating staff
- Maximum operational security: "State of the Art" cybersecurity according to BDEW Whitepaper and NERC CIP. Certification in accordance with the IEC 62443 process industry safety standard
- Investment security through the use of international standards such as IEC 61850, IEC 60870-5-101/-103/-104, DNP 3.0
- IoT connectivity: Provision of data via a secure internet connection to Electrification X or other cloud-based services and applications
- Product certification in accordance with IEC 62443-4-2 process industry standards

- Support for SIAPP applications based on Docker using the SIAPP Software Development Kit (SDK)
- On board interfaces for adaptation to existing communication infrastructure. E.G:
 - Encrypted wireless communication (based on IEEE 802.15.4) for connecting and monitoring low-voltage outgoing circuits with SENTRON 3NA COM (Smart Fuse, with outgoing current detection)
 - Connection of multi-measurement devices or short-circuit indicators (e.g. SICAM FCM/FCMplus) via the serial Modbus interface
 - LTE modem with GPRS fallback (only for CP-8012)
- Highest EMV stability up to 5 kV (IEC 60255) for direct use in substations
- Display can be snapped on if required

SICAM A8000 CP-8010/8012, fit for the application

- as distribution grid automation for medium voltage and low voltage switchgears
- for controlling and monitoring solar parks, wind farms and charging stations for electric vehicles
- as an IoT gateway for easy connection of products and solutions for measurement technology, sensor technology, protection and automation, power quality and measurement technology to cloud-based platforms for asset management and data analysis
- for the control and automation of traction current systems
- as a communication Gateway

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Device Features

With the new RTUs from the SICAM 8 platform, we deliver a product for practical users – our contribution to a stable, environmentally friendly power supply, grown from our many years of project experience, optimized in product development!

Inputs / Outputs

- On Board
 - Digital inputs
1 group of 8 inputs
Rated Voltage: DC 24 V / 48 V / 60 V
 - Digital outputs
2 groups, 2 outputs 8 A each and 5 outputs 5 A each, each relay has a 1-pole normally open contact Nominal voltages: AC 110 V / 230 V DC 24 V / 48 V / 60 V / 110 V / 220 V 1-, 1,5- & 2 pole configuration possible
 - Analog input
Galvanic isolation between primary and secondary circuit,
current measurement -22 ... 0 ... +22 mA
- External extension
 - < 2.5 W total power consumption of the I/O modules:
Max. 8 SICAM A8000 I/O modules via the CM-8810 I/O coupling module
 - > 2.5 W total power consumption of the I/O modules:
Max. 8 SICAM A8000 I/O modules via the CM-8810 I/O coupling module and additional power supply (PS module)
 - Further line with license

Signaling

- 8 configurable LEDs with labeling strips: green, yellow, and red available

Communication interfaces

- 2x RS-485/422
Configuration 4-wire/2-wire with/without terminating resistor (parameter settable)
Transmission rate up to 115.2 kbit/s (depending on protocol)
Line length \leq 1200 m
- 1x RS-232
Support for fiber optical interface CM-0847

Transmission rate up to 115.2 kbit/s (depending on protocol)
Line length < 2,5 m (cabinet internal)

- 3x Ethernet
Ethernet acc. to IEEE 802.3 (100Base-TX)
- Encrypted wireless communication (based on IEEE 802.15.4) between CP-8010/12 and SENTRON 3NA COM fuses via an internal or optionally external antenna via R-SMA connector
- Only for CP-8012:
On board LTE modem with GPRS fallback, external antenna via SMA connector

Auxiliary voltage

- from DC 24 V to 60 V (-25 % to 30 %)

Operating temperature

- from -40 °C to +70 °C

Housing

- Polycarbonate for DIN rail mounting
- Dimension: 153,5 x 160 x 123 mm (W / H / D)

Snap-On RGB-Display CM-8880

- Access device and diagnostics information
- Check Event/Alarm Lists
- Check I/O status
- Local control



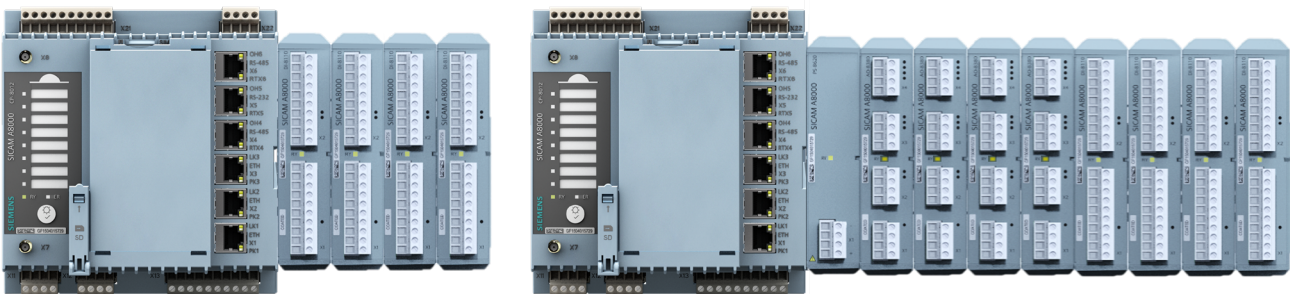
SICAM A8000 CM-8880: RGB Display

Our tip

Use or register on our Siemens SiePortal and you'll have access to all product documentation for SICAM A8000 today.

[↗ SiePortal registration](#)

[↗ SiePortal SICAM A8000 CP-8010/12](#)



SICAM A8000 CP-8010/12: external extension without and with additional power supply (PS module)

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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), cryptographic software written by Eric Young (eay@cryptsoft.com) and software developed by Bodo Moeller.

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