

Digital Grid Products At a Glance Protection, Substation Automation, Power Quality

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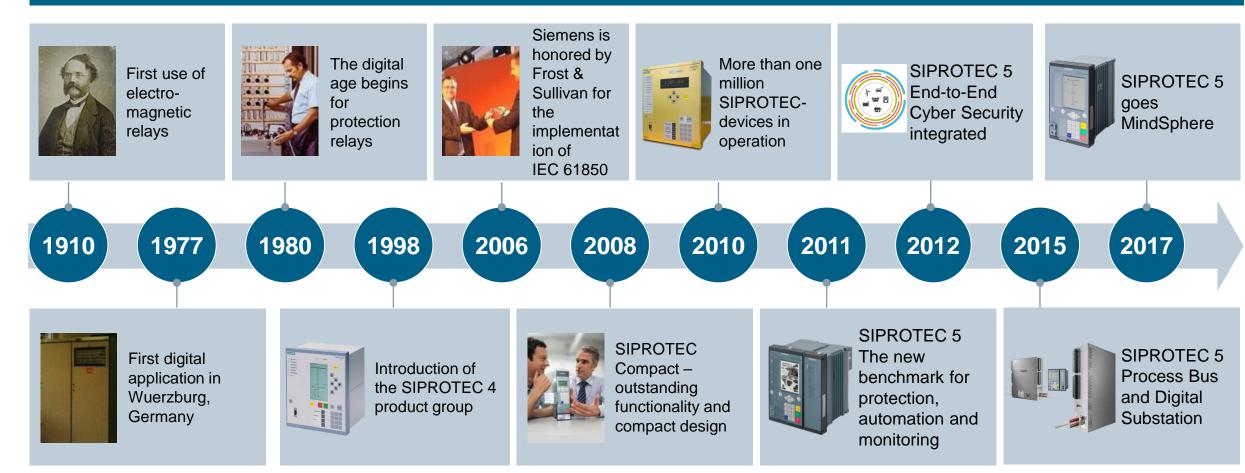
siemens.com/digitalgrid

Digital Grid Products Broadest portfolio – strong brands



SIPROTEC – Synonym for the world's leading protection technology

More than 1.65 Mill. devices installed therein >500,000 with IEC 61850



SICAM A8000 Series – Wherever energy flows

48

SICAM

RY

OH2

RS-232

ER

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SIC

RY

((?))

RTV

siemens.com/sicam-a8000

48000

SICAM

SICAM A8000 Series:

All requirements combined in a single platform







Automation PLC - IEC 61131-3

Rough ambient

- 40 ... + 70° C

conditions



Long product lifecycle 15+ years



Integrated communication Protocols, GPRS

Space-saving design

128x124x123mm (W/H/D)

High electric strength

EMC 5kV (IEC 60255-5)

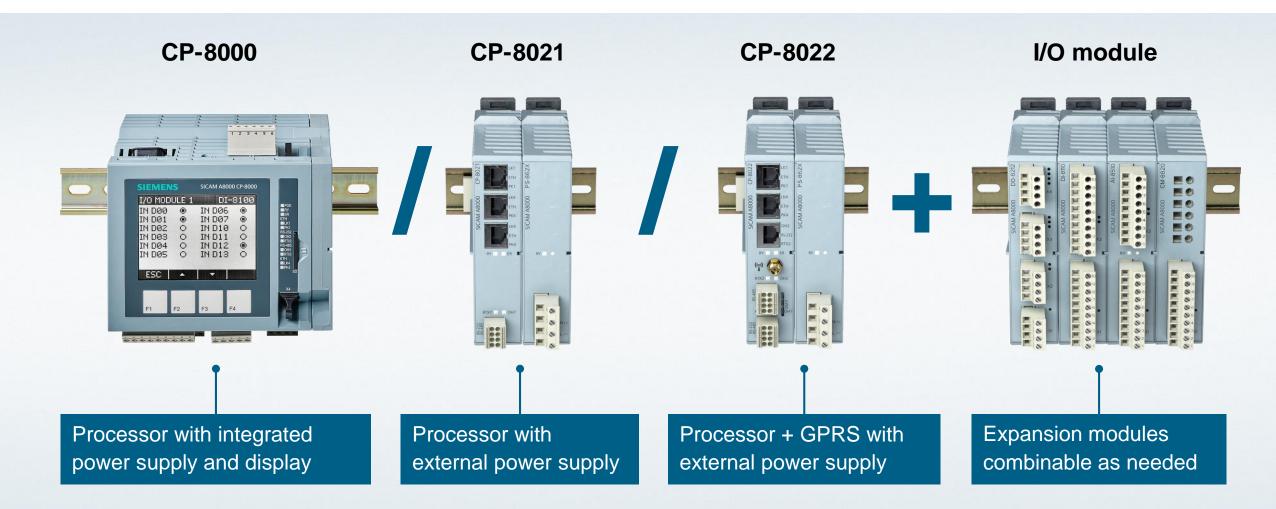


Cyber Security IPSec, crypto-chip etc



Scalability Modules

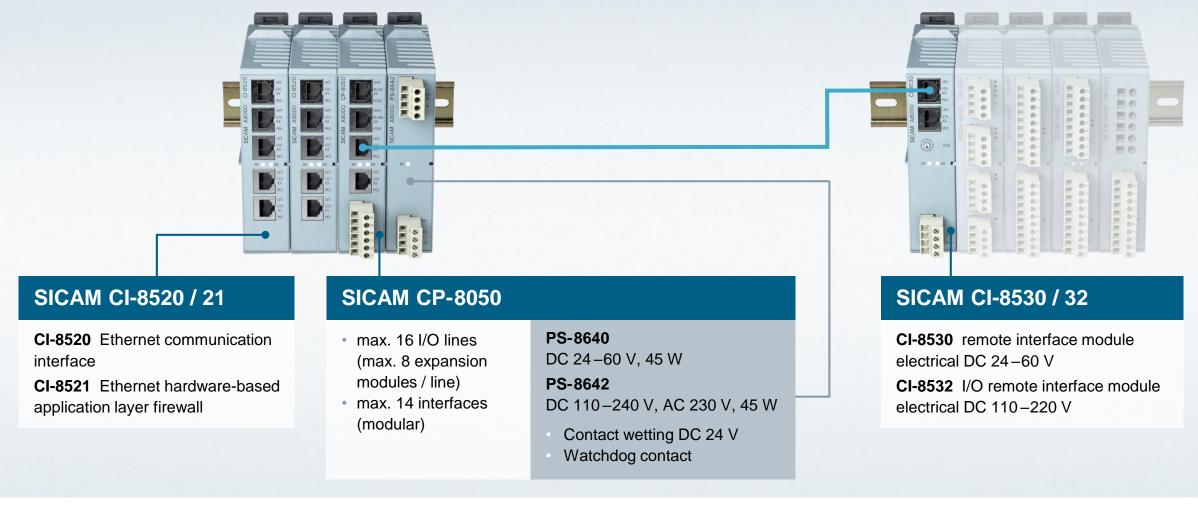
A strong team: Equipped for any task



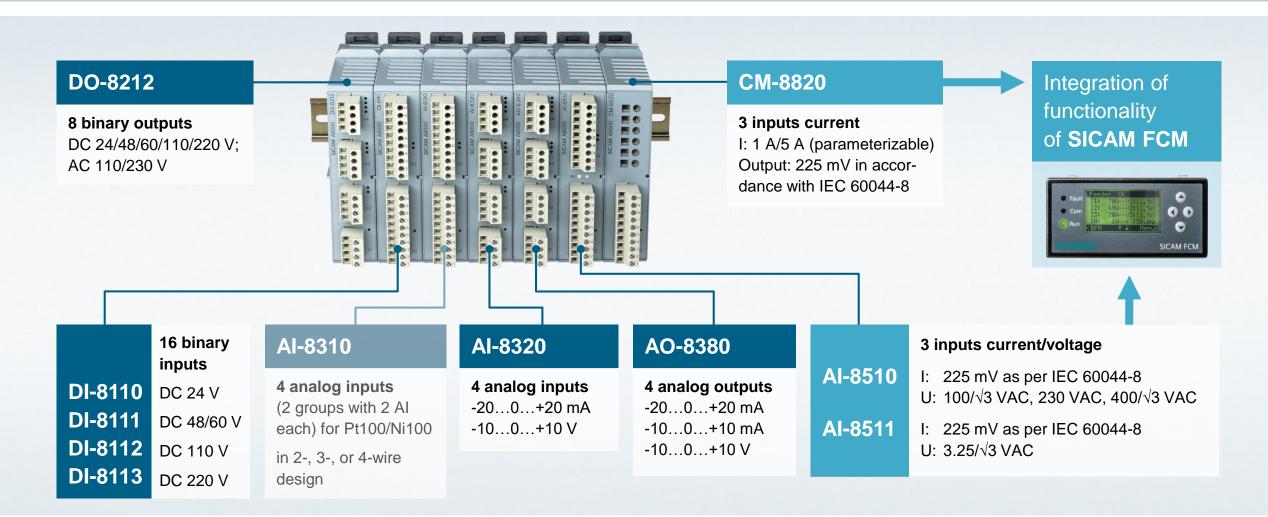
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The entire family at a glance:

Power supply units, processor modules, and remotely installed expansion module



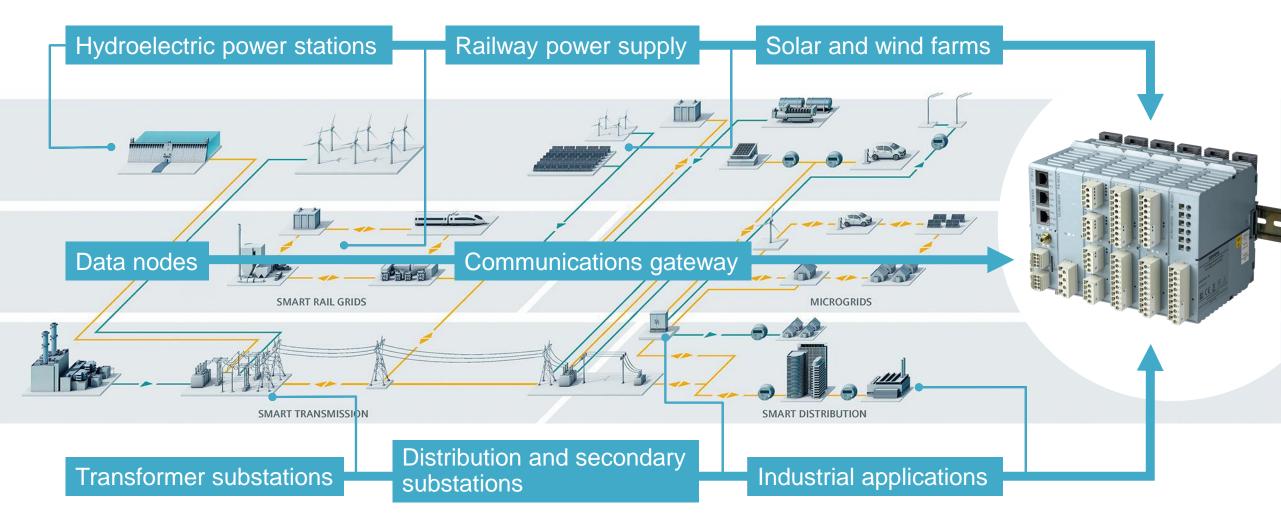
The entire family at a glance: Expansion modules



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Wherever energy flows:

Universal platform allows versatile use



Convenient engineering:

Parameterization, commissioning and operation

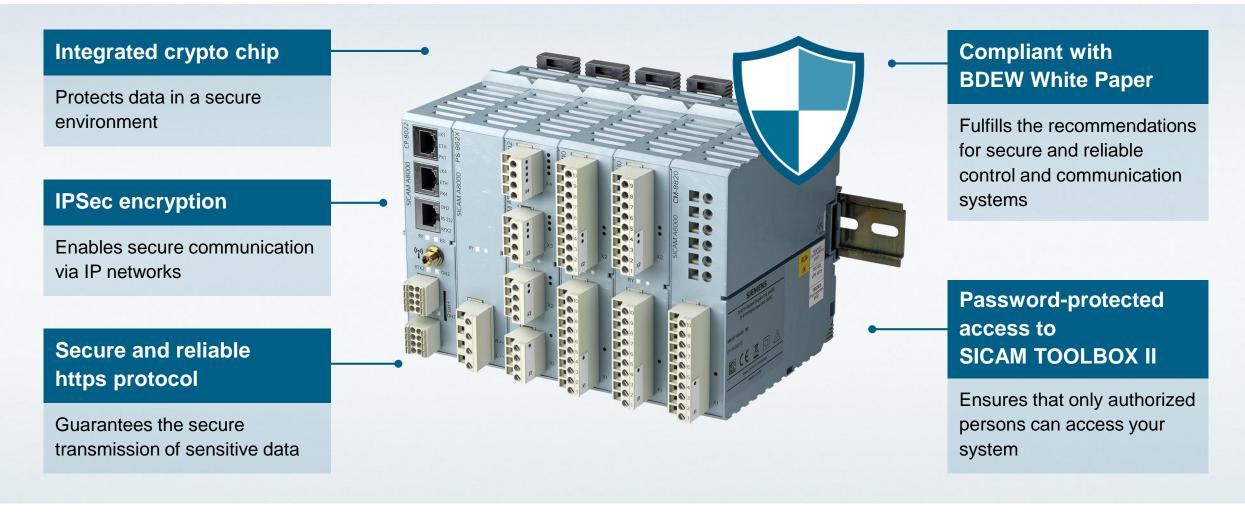
with SICAM WEB

with SICAM TOOLBOX II





Cyber Security: Meeting the requirements of tomorrow



Cyber Security: Additional features with SICAM CP-8050

Firewall

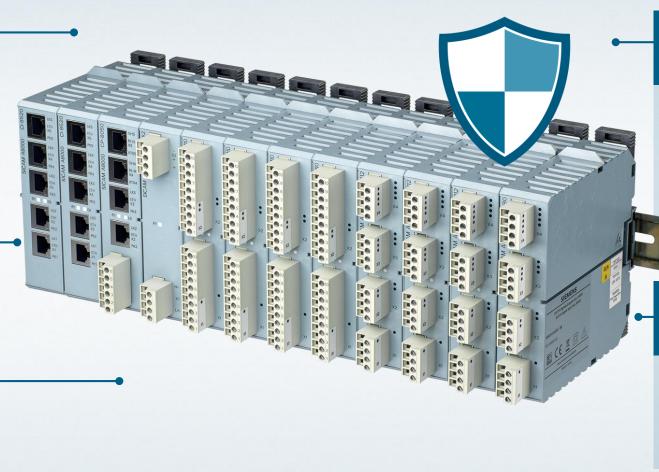
For the separation of TCP/IP networks via integrated software firewall additional hardware-based application firewall

Firmware Signature

Protection against firmware manipulation

Security Logbook

Non-volatile storage of SYSLOG events



Role Based Access Control

RBAC in accordance with IEC 62351-8 ensures that users may exercise only the rights that correspond to their assigned role

Configurable System Functions

Selective activation of individual or multiple system functions per communications interface

Flexible communication: Diverse range of interfaces and protocols

Multiple communication options:

CP-8050

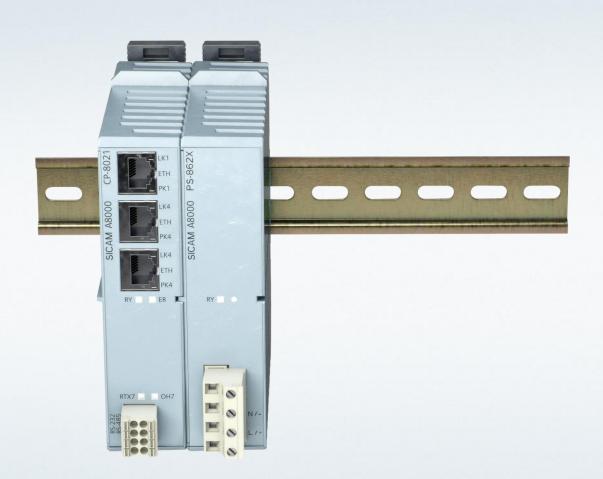
- 2 x RJ45 (Ethernet)
- 1 x RS 232 (RJ45)
- 1 x RS 485
- 10 x RJ45 (Ethernet) optional with CI modules



Flexible integration into an existing communications infrastructure through the support of standard protocols, legacy systems, and protocols from thirdparty manufacturers:

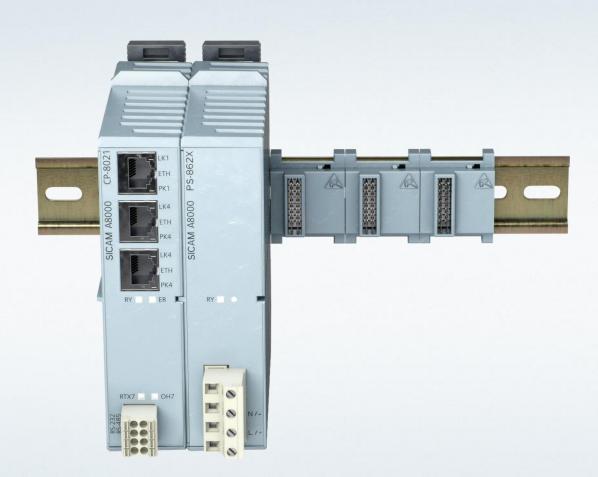
- IEC 61850
- IEC 60870-5-10x
- DNP3.0 serial/TCP
- Modbus RTU/TCP
- Additional protocols upon request

A strong team: Simple to install



Compact DIN rail mounting

A strong team: Simple to install



- Compact DIN rail mounting
- Consistent bus for I/O modules

A strong team: Simple to install



- Compact DIN rail mounting
- Consistent bus for I/O modules
- Individual combination of modules
- Detection of the plugged modules during startup

Great benefits right from the factory:

Well-designed for practical use

Platform modularity for versatile application options and reduced inventory	6. Integrated crypto chip and IPSec encryption to fulfill the high cyber security requirements
2. Extended temperature range of -40°C to +70°C for rough ambient conditions	7. Multitude of interfaces and integrated GPRS module for simple adaptation to existing communication infrastructures
3. Highest EMC stability up to 5 kV (IEC 60255) for direct use in substations	Q Integrated web parameterization tool
4. Integrated short-circuit indicator functionality for use in cable network monitoring	Plug-and-Play functionality of the modules
5. Use of international standards such as IEC 61850 for high investment security	S for time and cost savings