Perfect energy automation:
Flexible and highly available

SICAM Station Unit hardware platform

SICAM PAS
◉ Field devices
◉ Protection devices

SICAM PAS/PQS combined solution
◉ Field devices
◉ Protection devices
◉ Power-quality equipment

SICAM PQS
◉ Power-quality equipment
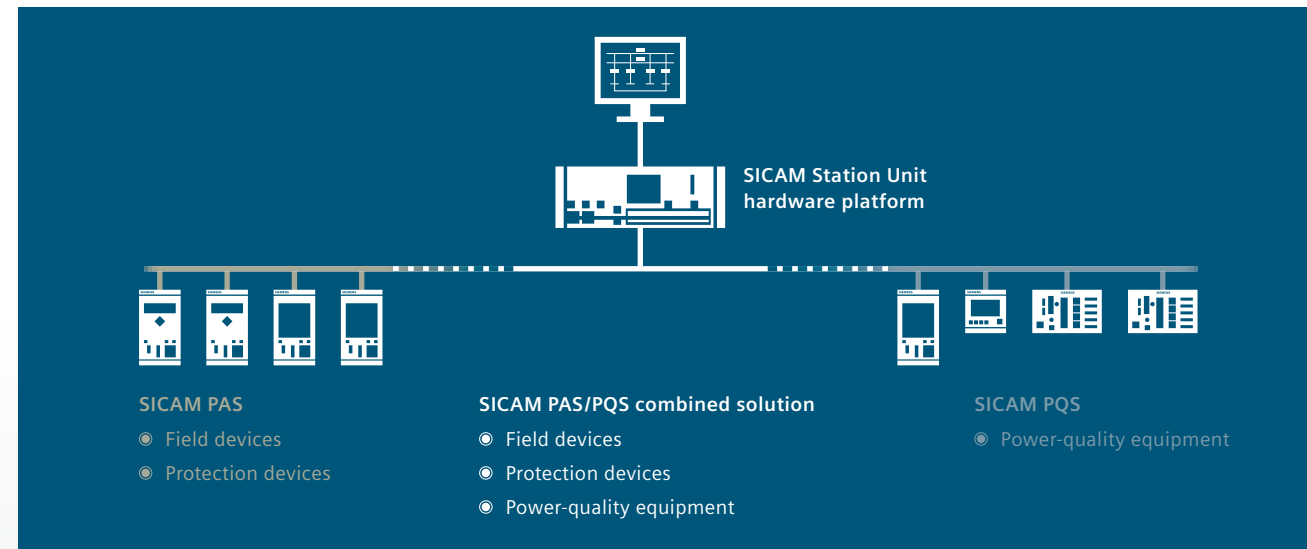
Open-ended solution with IEC 61850

◉ Optimized for the connection of field devices

◉ Meets all requirements with respect to electromagnetic compatibility (EMC) and operates even under the harshest environmental conditions
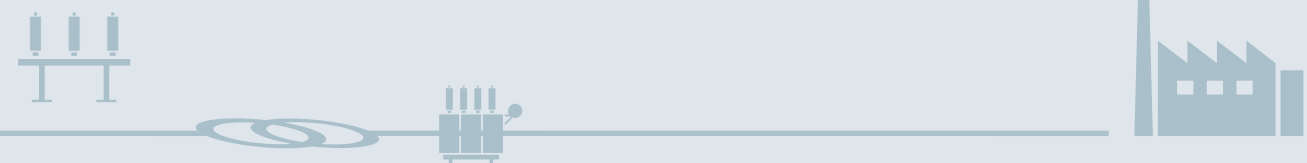
No worries thanks to IT security

◉ BIOS password (compliant to NERC CIP)

◉ Windows Embedded Standard 7

◉ User documentation for emergency planning: reliable restoral of operation after a fault (recovery DVD)

Free choice for communications

◉ 7 USB ports

◉ Up to 16 serial ports (RS232/RS485)

◉ Up to 6 Ethernet ports (electrical)

◉ Up to 4 Ethernet ports (optical)

Durability due to long-life concept

◉ 5-year warranty

◉ Long-term availability of components and of the operating system version

◉ High degree of compatibility

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SICAM Station Unit

Flexible hardware – high IT security

Answers for infrastructure and cities.

SICAM Station Unit:
Efficient and future-proof

Performance and durability:
Simply reliable

Configuration and integration:
Completely according to your needs

Power generation and distribution technologies are changing dynamically. In particular, the trend toward smart grids is placing increasing demands on both systems and hardware.

With the SICAM Station Unit, Siemens provides a standard hardware platform that already meets tomorrow's requirements.

There are two changes that you need to consider today: the ever-shorter innovation cycles for operating equipment and communications media on the one hand, and the deregulation of energy markets on the other. Monitoring systems for power supply equipment and processes also need to catch up with these changes. But what are the key criteria when it comes to new products? First and foremost, they are user-friendliness and a wide range of options for communications links, to ensure efficiency and lasting flexibility into the future.

The SICAM Station Unit is the standard hardware platform for the SICAM PAS station control system and the SICAM PQS power quality system. It fulfills all requirements for the hardware for these applications, both today and in the future. The big advantage is that the SICAM Station Unit complies with the highest IT security standards for energy automation, such as the specifications laid down in the BDEW Whitepaper or NERC CIP.

Always ready thanks to redundancy

The best protection against loss of data: redundant storage media. The SICAM Station Unit mirrors system memory and operating data according to RAID 1, enabling faulty data media to be easily exchanged – with no system downtime.

The power supply unit, like the data storage, is of redundant design. This means you can rely on highly available hardware that is in service at all times. It is also absolutely maintenance-free. Apart from optional equipment that may contain a hard disk, the SICAM Station Unit dispenses entirely with rotating parts and is not equipped with a fan – so you can rely on everything to work as it should.

Flexible and long-lasting through modularity

The foundation for a flexible structure: modular systems. The SICAM Station Unit offers a number of different preconnectorized equipment variants so you have the option of expanding the platform at any time. For example, you can add CompactPCI/CompactPCI serial modules like GPS time synchronizing cards, in line with your system's requirements.

You also have the assurance of being able to build on this reliable hardware in the future. Coordinated spare-part concepts ensure the long-term delivery of parts even after product versions have been discontinued – so your investment will continue to pay off.

High performance with first-class components

The guarantee of optimal performance: powerful components. The SICAM Station Unit relies on the latest embedded processor technology from Intel and four-gigabyte main memory. The modern bus technology for the embedded element is based on CompactPCI Serial. The use of solid-state disks (SSD) based on flash memory ensure extremely rapid startup and shutdown of the system.

You need an especially large amount of storage for applications and data? As an alternative to the 16-GB SSD, you can also equip the SICAM Station Unit with a 100-GB hard disk and an additional 100-GB hard disk for archive data. In this way, power quality applications are accommodated equally as well on the platform. If you optionally equip all your storage devices with redundancy, you can expect a big improvement in reliability against failure.
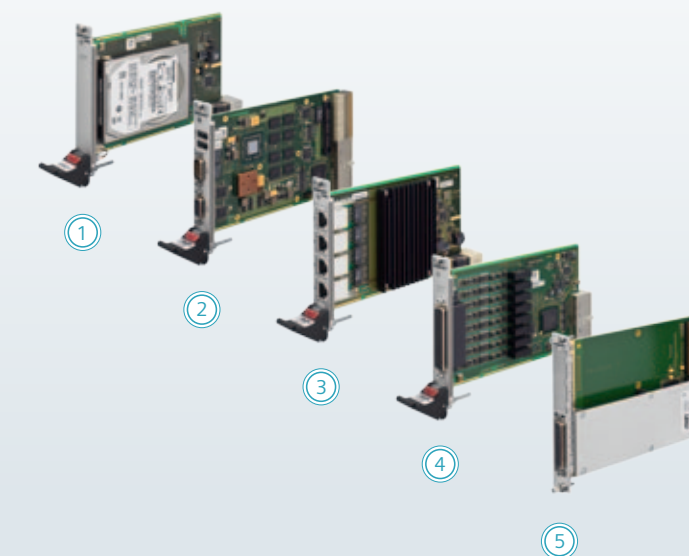
Contacts available for every requirement

The SICAM Station Unit can meet all possible conditions through the use of individual assemblies. Configure the platform for your requirements with the eight floating binary output contacts that are provided as standard, or extend it by up to 64 additional binary input and output contacts. A special protocol application supports integration in SICAM PAS, enabling you to plan automation without trouble.

Integratable in all standard racks

19 inches wide and four units high – with its standard dimensions, the SICAM Station Unit can be easily integrated in automation cabinets and racks.

1. Data drive
2. CPU
3. Quad Ethernet board
4. Serial interface
5. Digital inputs/outputs