

PLC AUTOMATION

S500 I/O system

Easy solution for changing customer needs



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Significantly more...

Easiness

Efficiency

Flexibility

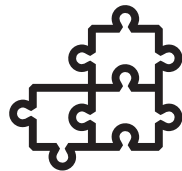


Straightforward engineering

Scalable product range for high availability

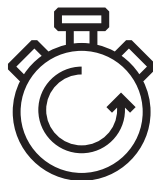
The S500 I/O module range, which is part of the AC500 PLC platform, can be used with the AC500 PLCs and other controllers.

Whether for standard situations or extreme conditions: With these I/O modules you will have a cost-efficient solution with low technical barriers in many industry segments, especially in water & wastewater, food & beverage, paper or data centers. In addition to saving time and money you will benefit from more...



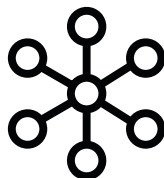
Easiness

- Fast integration into existing environment
- Easy integration with third-party PLCs
- Lean portfolio covers all requirements
- I/O modules with configurable channels allow for less inventory



Efficiency

- Configurable I/Os reduce footprint & price
- Hot-Swap I/Os for increased availability
- Fast counters on each module
- Pre-wiring possible
- Scalable assortment optimizes price



Flexibility

- Terminal units which fit many different I/O modules
- Openness with support of different fieldbus protocols
- S500-eCo and standard S500 I/O modules can be mixed
- Configurable channels make subsequent configuration change possible

Scalable S500 I/O concept

Modular offering fits many applications

Communication interface modules

Available for common fieldbuses:

- PROFIBUS-DP
- PROFINET
- EtherCAT
- Modbus TCP
- CANopen

I/O bus

Transmits process data between communication interface module and I/O modules

Terminal units for communication interface modules

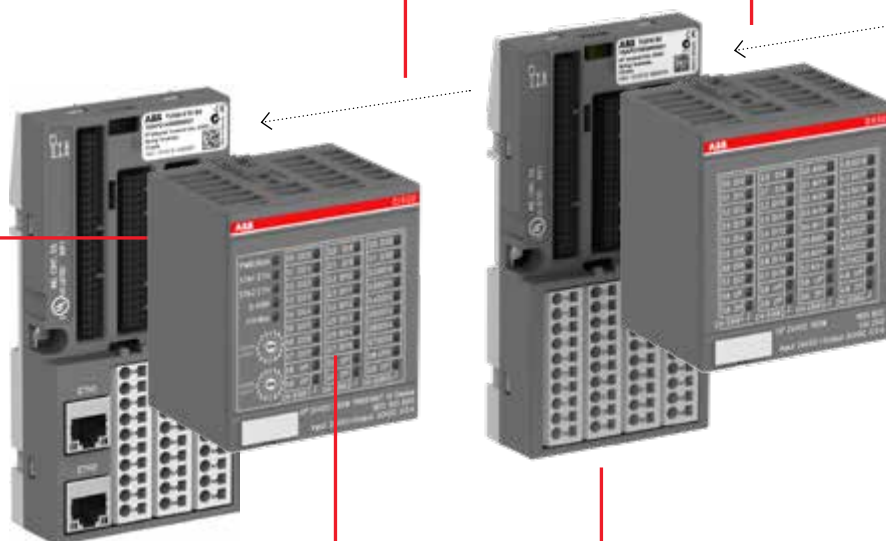
Variants for different fieldbus types

Integrated I/Os

Up to 24 I/O channels in the communication interface module save space

Terminal units for I/Os

Variants with screw or spring connection

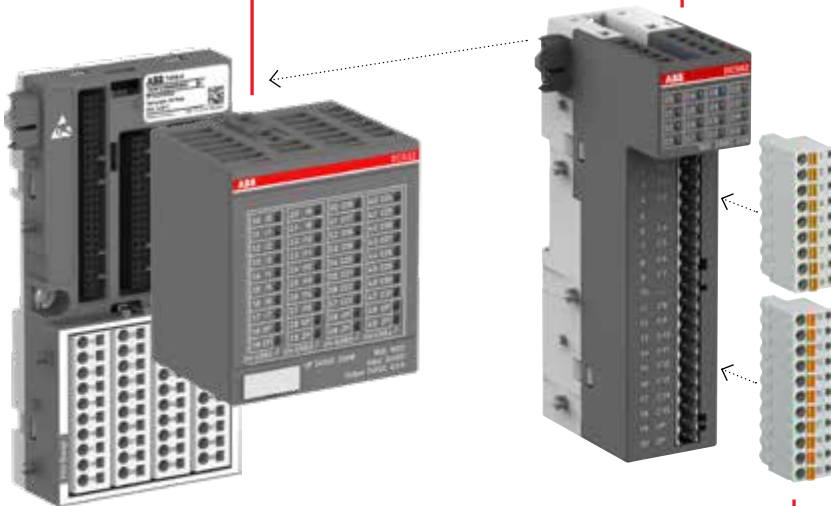


• S500 I/O modules

With up to 32 channels
in variants for analog and
digital signals

• Compact S500-eCo I/O modules

With up to 16 channels
in variants for analog and
digital signals



Terminal units for Hot Swap of I/Os

For exchange of
I/O modules while
the system is running

Removable terminal blocks

Push-in spring or screw
connectors for cables
up to 2.5 mm²

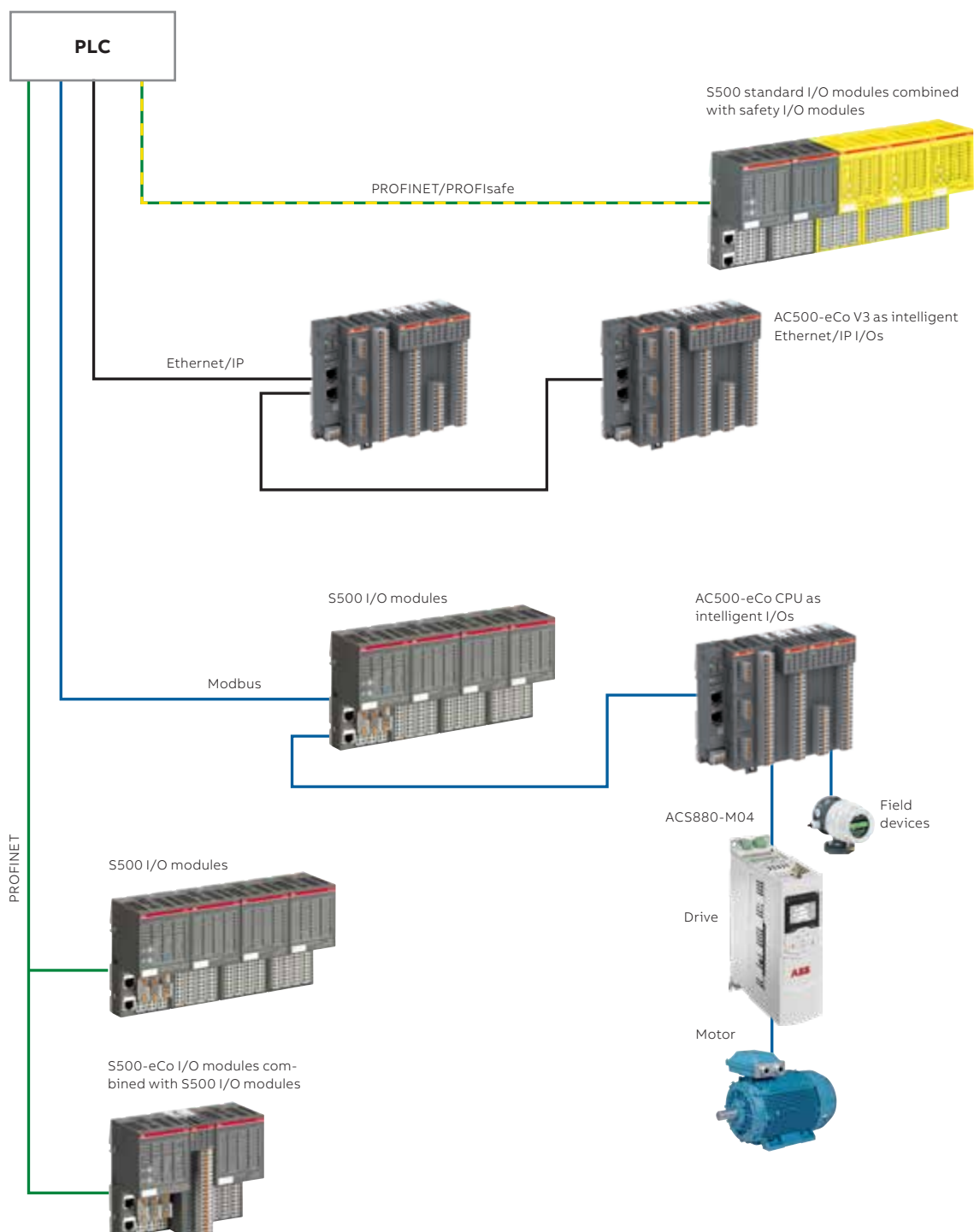
Variety of fieldbuses supported

One I/O system for all protocols

One
for all.
All in one.

Third-party PLCs, IPC
or machine controller

Controller can also
be an industrial PC
with ABB Ability™
for data center



Benefits with S500 I/O system

ABB provides tailor-made solutions to run customers' plants uninterruptedly, and to meet their quality and performance needs: Reliable and cost-effective applications with robustness and longevity throughout the life cycle.

Reliable data center automation for efficiency

ABB provides intelligent and energy-efficient solutions for data centers in different parts of the world. ABB Ability™ Data Center Automation makes real-time visualization and management possible. Direct system connection of a large number of unbundled S500 hot-swap I/Os helps with comprehensive, distributed monitoring to enable continuous balancing of data center demand and functionality – while maximizing availability and minimizing energy consumption.

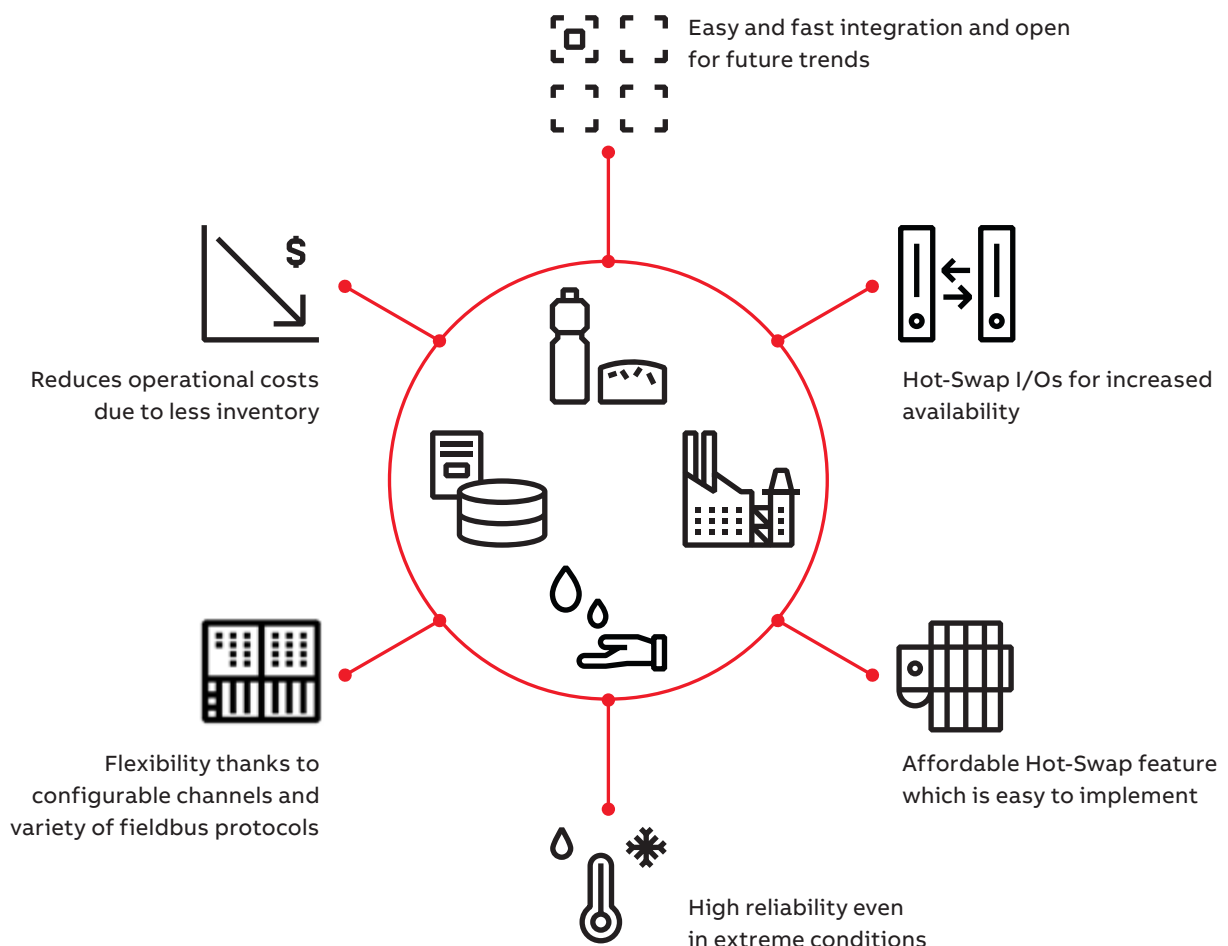




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