

# Automation Products GmbH

## AC500 PLCs

### The new AC500 CPU PM595

The PM595 offers enhanced performance, reliability, scalability and integrated Safety combined with advanced connectivity capabilities in a well-designed and now awarded housing.



13.03.2015 Rev.1



#### Features of the new CPU PM595

This CPU – the PM595 - combines the characteristics of the established AC500 product family, scalable, flexible and multisignal approach of the I/O devices with a leading edge performance processing unit. Added with versatile connectivity for legacy systems, today's favored networks.

- High speed 1.3GHz processor with floating-point unit
- Large amount of User / Program memory
- A variety of backup and data storage capabilities
  - 3MB retain memory; integrated 4GB
- Fan less hardware
- Integrated Safety (with SM560-S)
- Versatile connectivity for legacy systems, today's favored networks and for future demands
  - 4 Ethernet ports, 2 with integrated switch and software configurable protocol
  - 2 Serial ports (RS232 / RS485)
  - 2 Slots for standard AC500 communication modules

- S500 I/O Modules
  - S500 and S500-eCo series, fast I/Os based on modular EtherCAT, multisignal in one I/O;
- HMI
  - Connectivity capabilities for CP600 series

#### Applications

- Machinery applications
- Infrastructure (tunnels, airports, buildings)
- Water and Wastewater
- Renewable Energies

#### Advantages

- Operation - fast and reliable
  - Outstanding performance (1650 bit, 1000 word, 1000 floating point instructions in 1µs)
  - Large amount of User / Program memory 16MB / 16MB with Error Checking and Correction
  - High speed applications e.g. motion control (>64 axis regulation in 1ms cycle->)

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  - Outstanding performance (1650 bit, 1000 word, 1000 floating point instructions in 1µs)
  - Large amount of User / Program memory 16MB / 16MB with Error Checking and Correction
  - High speed applications e.g. motion control (>64 axis regulation in 1ms cycle>)
- Communication and fieldbus
  - Versatile connectivity in various combinations, fieldbus independent approach
  - Smooth migration, creating separate Networks with one Hardware
  - Providing a soft architecture for future demands with software configurable protocols
- Security
  - High amount of simultaneous connections to online devices (IP sockets)
  - Tested against intrusion (acc. Wurdtech, member of ENCS European Network for Cyber Security)
- Compatible to the AC500 I/O family assortment
- Integrated safety solution
- Programming, Automation Builder – one Engineering Suite

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#### Ordering Information

Description	Order Code
PM595-4ETH-F	1SAP155500R0279
PM595-4ETH-M-XC	1SAP351500R0279

ABB Automation Products GmbH  
Wallstadter Str. 59  
68526 Ladenburg  
Germany  
Phone: +49 (0) 6221 701-1444  
Fax: +49 (0) 6221 701-1382  
Email: [plc.sales@de.abb.com](mailto:plc.sales@de.abb.com)  
[www.abb.com/plc](http://www.abb.com/plc)  
[www.abb.com/drives](http://www.abb.com/drives)  
[www.abb.com/automationbuilder](http://www.abb.com/automationbuilder)

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