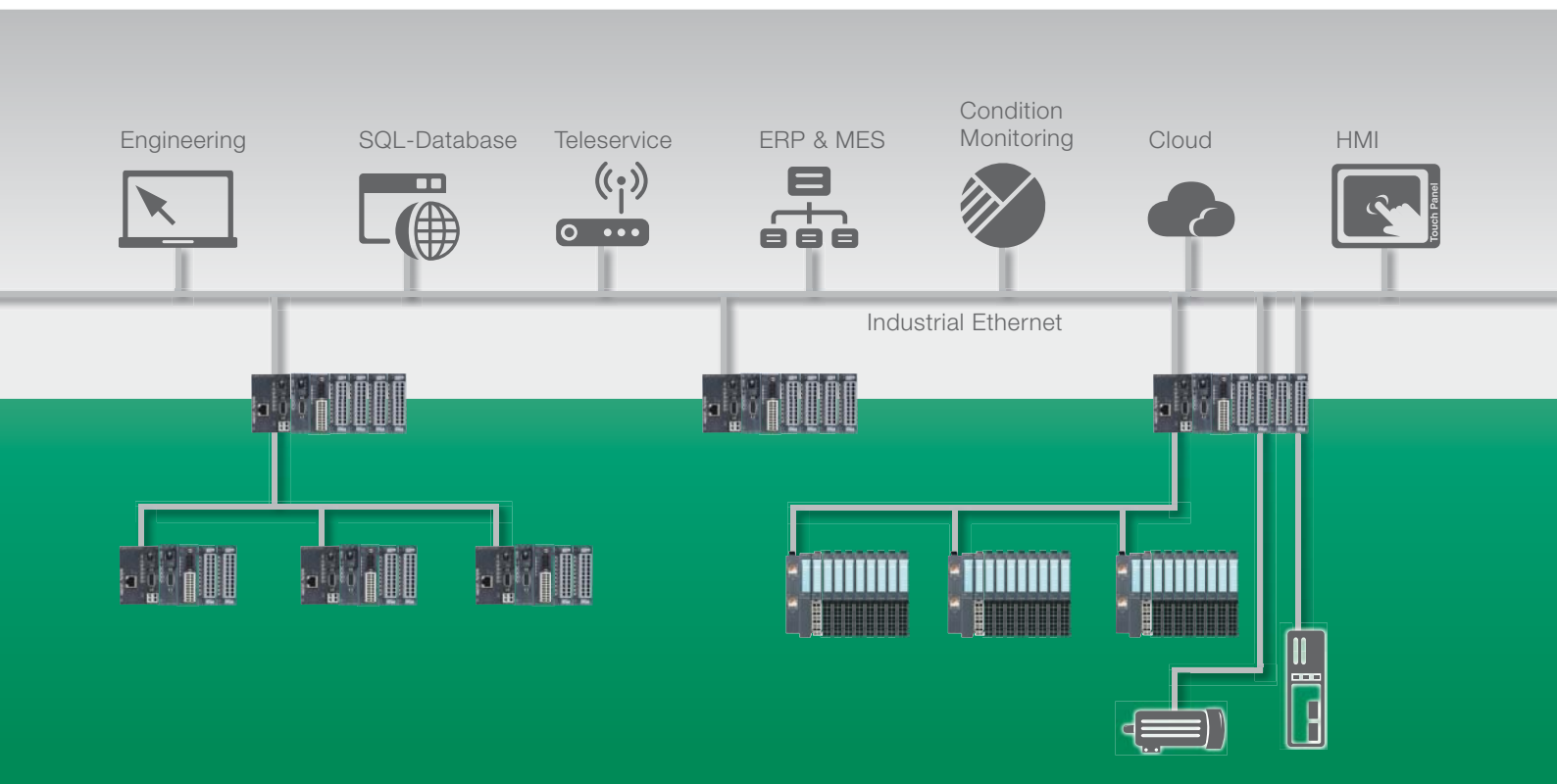




# 200V

The modular control system

# 200V at a glance



200V is a modular control system for centralized and decentralized applications. Its compactness in combination with the instruction set of a S7-300 CPU makes the system 200V a rock-solid and unique system.

## 200V is a very compact and modular expandable system.

The system is designed for centralized and decentralized automation tasks.

With a central construction of up to a maximum of 32 modules directly on the CPU and with up to 126 fieldbus slave modules including up to 32 modules per fieldbus slave module, the 200V can be deployed with enormous flexibility. The module-size allows the deployment in almost any automation environment.

## Communicative

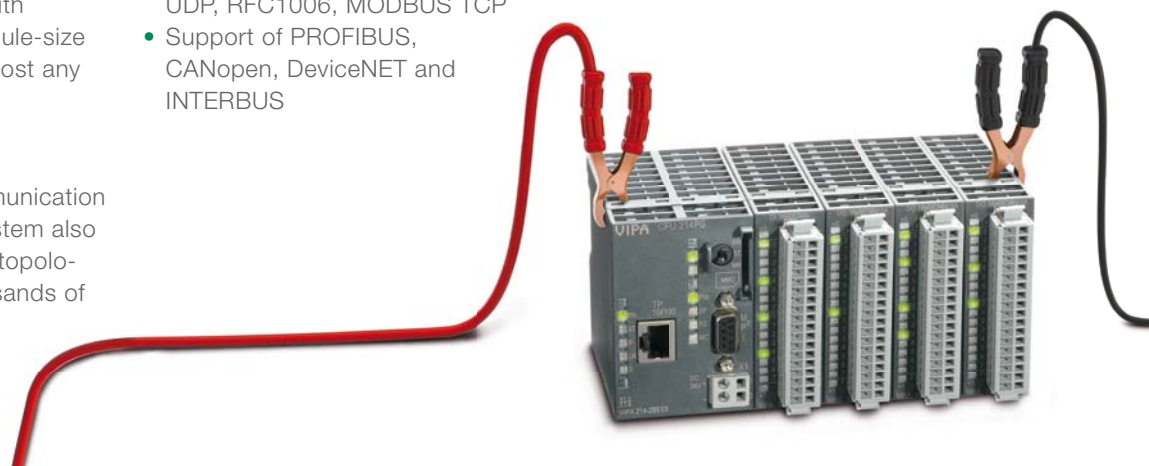
With the wide range of communication and fieldbus modules the system also supports complex assembly topologies and is deployed in thousands of

installations worldwide. The well thought out modular concept enables the customized deployment up to the middle power range – for almost every application. Extensive ability to communicate and up-to-date protocols.

- MPI interface always on board
- Ethernet on board, ISOTCP, TCP/IP, UDP, RFC1006, MODBUS TCP
- Support of PROFIBUS, CANopen, DeviceNET and INTERBUS

## Innovative data storage concept

- Integrated work memory – operation without additional memory card
- Integrated ROM memory for constant saving of program and data
- Integrated battery-backed RAM memory
- Support of MMC cards for saving program and data



# 200V – Flexible in every direction

Modbus

PROFIBUS

DeviceNet

CANopen

VIPA CPU 214NET

DI 16xDC24V

DO 16xDC24V/1A

DO 16xDC24V/1A

DO 16xDC24V/1A

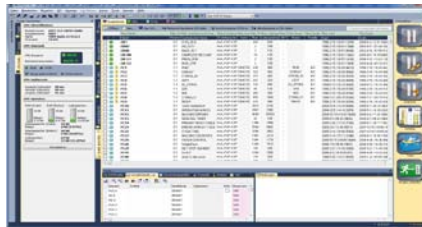
Step7 code programmable with WinPLC7 from VIPA or the SIMATIC Manager

## Performance and application



- 200V designed for centralized and decentralized automation tasks.
- The compact 200V has the instruction set of the 300S.

## Programming



- 200V is programmable with WinPLC7 from VIPA, or tools of other manufacturers in LAD, FDB and STL, and soon with VIPA SPEED7 Studio.

## Memory



- Work and load memory already integrated.
- Operation without additional memory card.
- From 48KB up to 128 KB working memory available depending on the CPU version.

## Modules



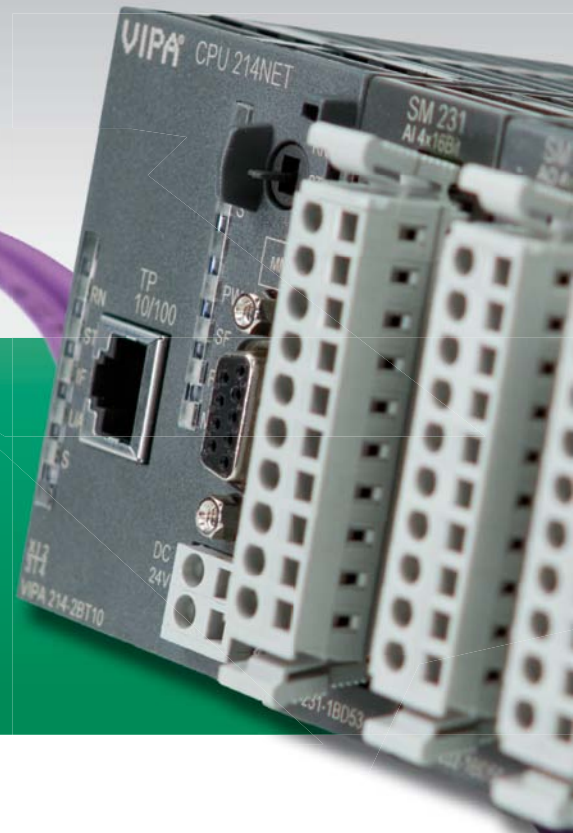
- Well thought out concept and large variety of modules.
- Choice of diverse SSI, servo or stepper modules for positioning tasks and distance measurements.

## Communication



- Fieldbus master and slave modules with different fieldbus protocols are available in system 200V, therefore it can act, manufacturer independent, as a master controller as well as a subordinated fieldbus slave unit.





For each application the right module



Digital Input	4x	8x	16x	32x	
DC 24 V	-	•	•	•	
DC 24 V (2 DI conf. as counter)	-	-	•	-	
DC 24 V (Delay time 0.2 ms)	-	•	-	-	
DC 24 V 0.2ms, Alarm storage	-	•	-	-	
DC 24 V (ECO)	-	•	•	-	
DC 24 V (NPN)	-	•	•	-	
AC/DC 90...230 V	•	-	-	-	
AC/DC 60...230 V	-	•	-	-	
AC/DC 24...48 V	-	•	-	-	
AC 230 V	-	•	-	-	
AC/DC 180...265 V	-	•	-	-	
Digital Output	2x	4x	8x	16x	32x
DC 24 V 0.5 A	-	-	-	•	-
DC 24 V 1 A	-	-	•	•	•
DC 24 V 2 A	-	-	•	•	-
DC 24 V 2 A (4x 2DO)	-	-	•	-	-
DC 24 V 0.5 A ECO	-	-	•	•	-
DC 24 V (NPN)	-	-	•	•	-
AC 230 V 2 A (Dimmer)	•	-	-	-	-
SolidState 0.5 A	-	•	•	-	-
Relay 5 A	-	•	•	-	-
Relay 16 A	-	•	-	-	-

Analog Input	4x	8x	
+/-10 V, ECO	12 Bit	•	
4...20 mA / +/-20 mA, ECO	12 Bit	•	
Multiinput	16 Bit	•	
4...20 mA, isolated	12 Bit	•	
10 V, isolated	12 Bit	•	
0...60 mV	16 Bit		•
-400 mV ... +400 mV, -4 V ... +4 V -10 V ... +10 V, +4 mA ... +20 mA -20 mA ... +20 mA	16 Bit	•	
Analog Output	4x		
+/-10 V, 0...10 V, ECO	12 Bit	•	
(0)4...20 mA, ECO	12 Bit	•	
+/- 10 V, +1 V...+5 V, 0...10 V, (0)4...20 mA, +/- 20 mA	12 Bit	•	
Analog In-/Output		2x/2x	4x/2x
+/-10 V, +1 V...+5 V, 0...10 V, (0)4...20 mA, +/- 20 mA	12 Bit		•
Multi In-/Output	12 Bit		•
Counter-/ Position-/ SSI modules			
Counter module (2/4 channels with 32/16 bit)			•
SSI encoder			•
Motion control stepper			•
Motion control servo			•

# 200V at a glance



## Clamp modules

offer different connectivity for mass and plus potentials. With these distributors for power supply can be created.

## Power supply modules

provide the system as well as the sensors and actuators with DC voltage.

## Digital signal modules

are available for the connection of sensors and actuators. They are the interface of the PLC to the process. There is a large range of different signal modules.

## Analog signal modules

see digital signal modules.

## Fieldbus master modules

are available for the connection of different target or source systems.

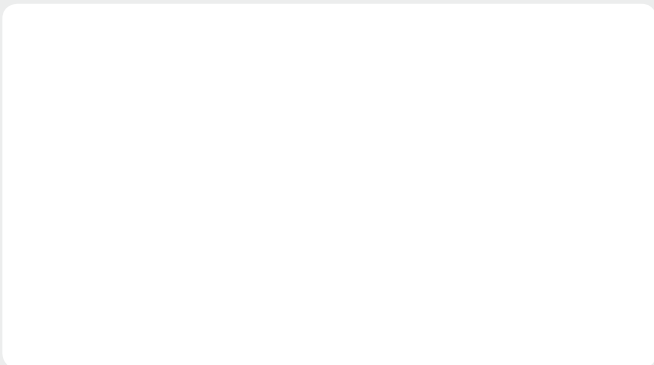
## Fieldbus slave modules

are expanding applied control systems with further decentralized periphery rows.

## Function modules

are intelligent modules which perform technological tasks independently.

## Notes



[www.vipa.com](http://www.vipa.com)