200V

The modular control system

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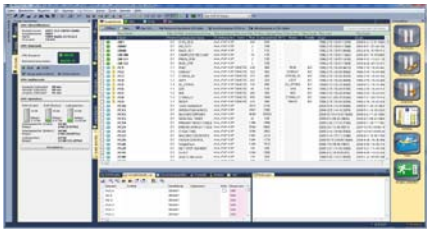
200V – Flexible in every direction

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.

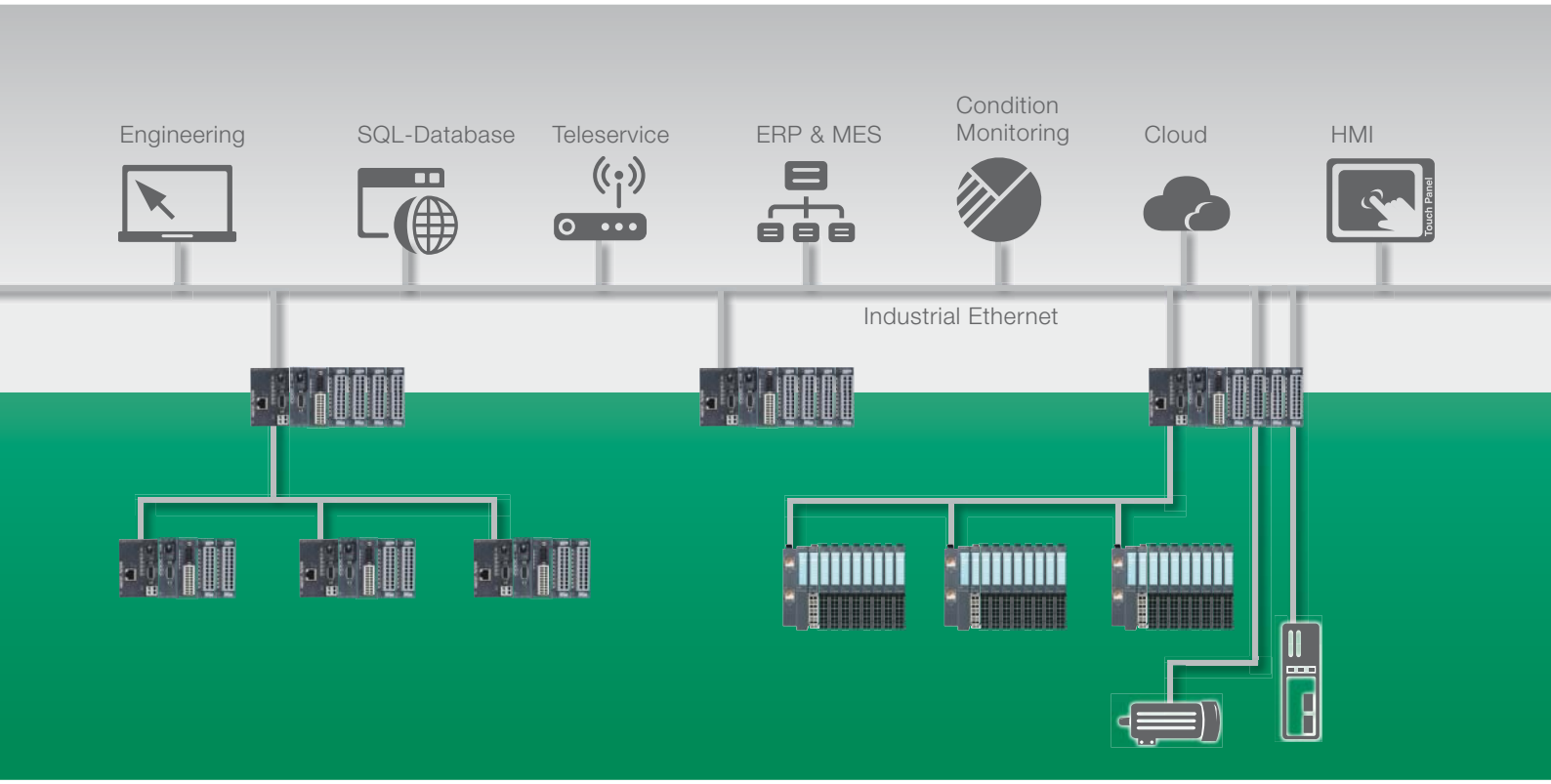
Modules

- 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.

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.

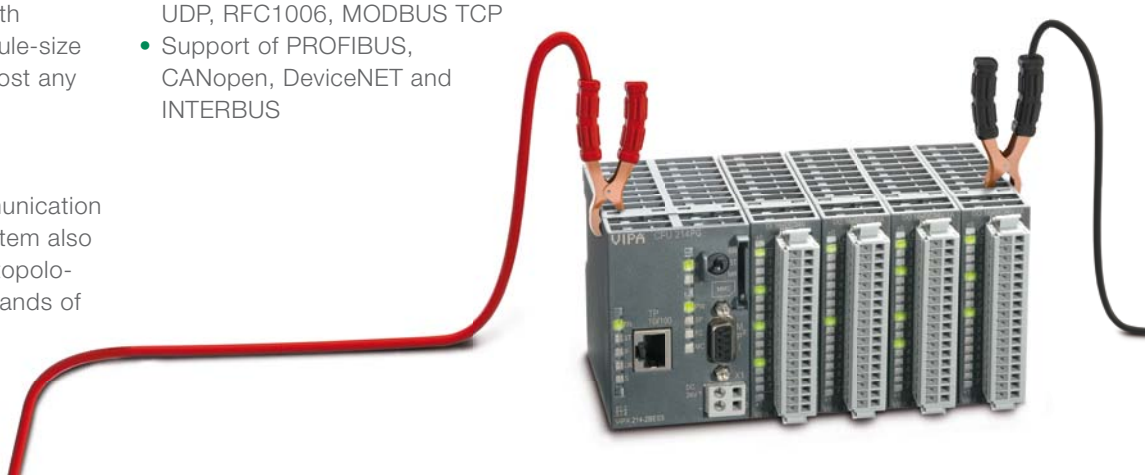
With a central construction of up to a maximum of 32 modules directly on the CPU and with up to 126 fieldbus slave modules including up to 32 modules per fieldbus slave module, the 200V can be deployed with enormous flexibility. The module-size allows the deployment in almost any automation environment.

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

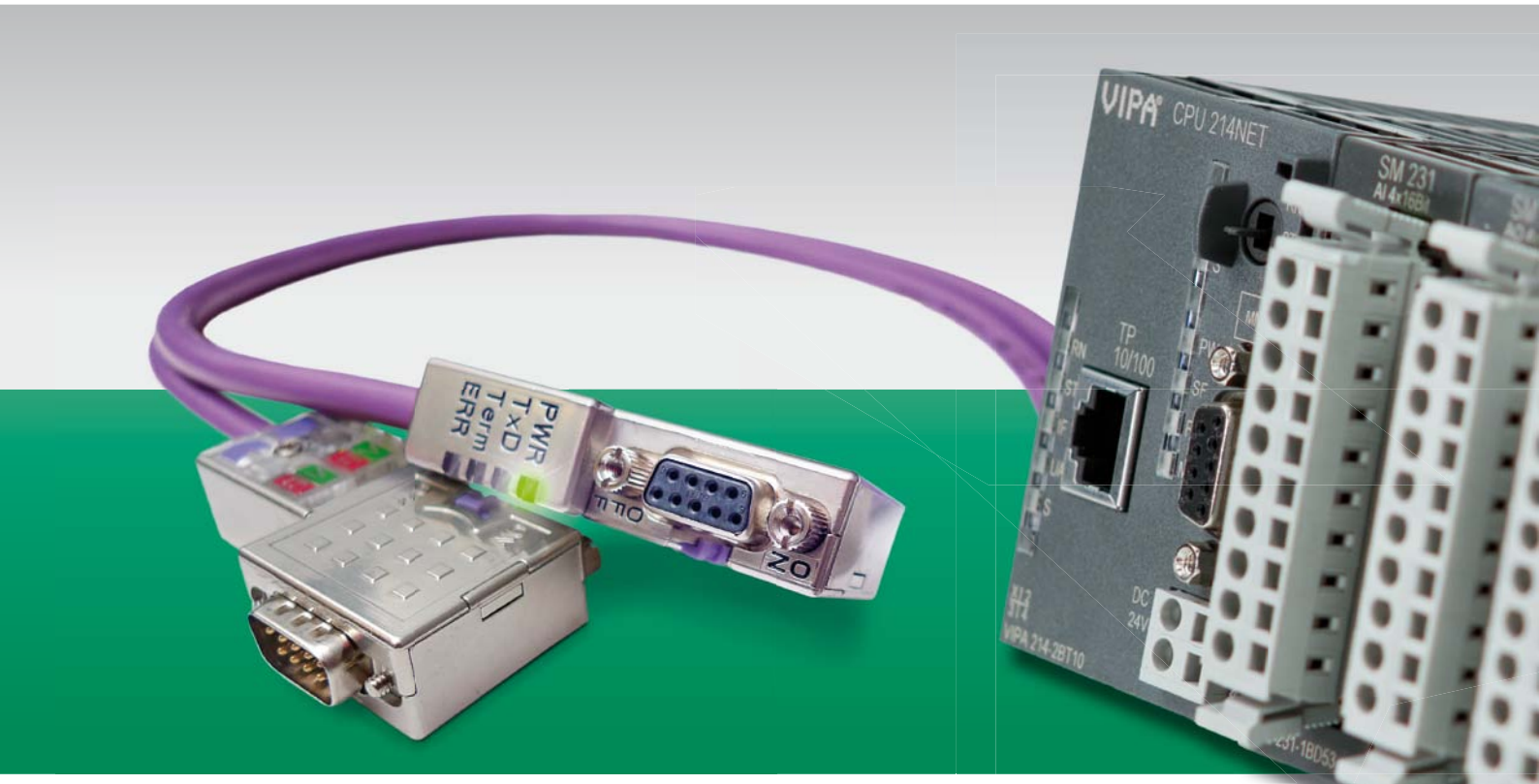


200V – The system

Stand-Alone-CPUs	214C	214	215
Work memory	48 kB	96 kB	128 kB
Load memory	80 kB	144 kB	192 kB
Ethernet PG/OP Interface	-	-	-
Integrated Ethernet-CP	-	-	-
Interface 1	MP²I	MP²I	MP²I
Interface 2	-	-	-
Interface 3	-	-	-
MMC-Slot	•	•	•

NET-CPUs	214PG	215PG	214NET	215NET
Work memory	96 kB	128 kB	96 kB	128 kB
Load memory	144 kB	192 kB	144 kB	192 kB
Ethernet PG/OP Interface	•	•	-	-
Integrated Ethernet-CP	-	-	•	•
Interface 1	MP²I	MP²I	MP²I	MP²I
Interface 2	RJ 45	RJ 45	RJ 45	RJ 45
Interface 3	-	-	-	-
MMC-Slot	•	•	•	•

Feldbus-CPUs	214SER RS232	214SER 2x RS232	214SER RS485	215SER RS232	215SER 2x RS232	215SER RS485	214DPM	215DPM	214DP	215DP	214CAN	215CAN
Work memory	96 kB	96 kB	96 kB	128 kB	128 kB	128 kB	96 kB	128 kB	96 kB	128 kB	96 kB	128
Load memory	144 kB	144 kB	144 kB	192 kB	192 kB	192 kB	144 kB	192 kB	144 kB	192 kB	144 kB	192 kB
Ethernet PG/OP Interface	-	-	-	-	-	-	-	-	-	-	-	-
Integrated Ethernet-CP	-	-	-	-	-	-	-	-	-	-	-	-
Interface 1	MP²I	MP²I	MP²I	MP²I	MP²I	MP²I	MP²I	MP²I	MP²I	MP²I	MP²I	MP²I
Interface 2	RS232	RS232	RS485	RS232	RS232	RS485	DP Master	DP Master	DP Slave	DP Slave	CAN Master	CAN Master
Interface 3	-	RS232	-	-	RS232	-	-	-	-	-	-	-
MMC-Slot	•	•	•	•	•	•	•	•	•	•	•	•



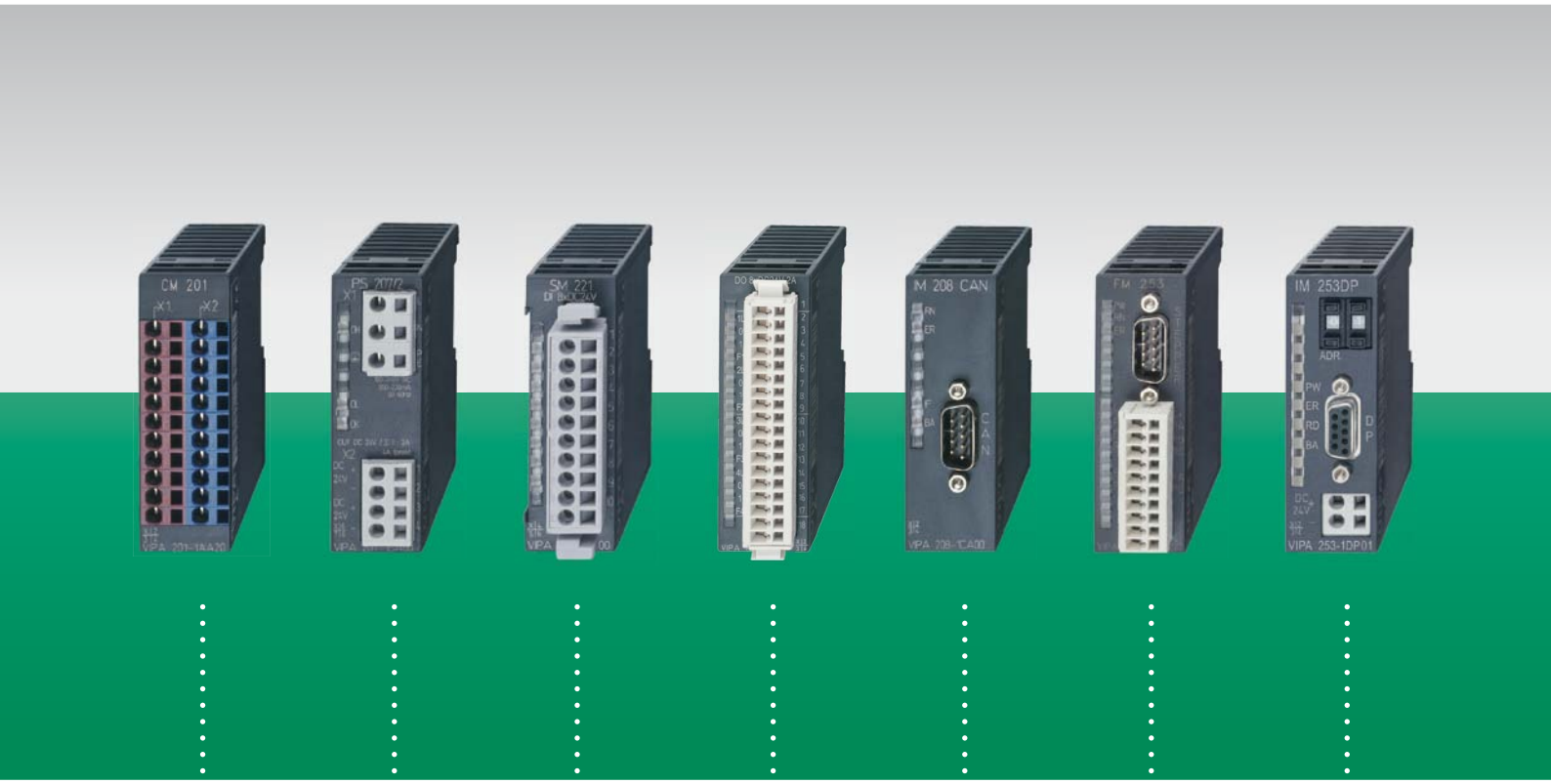
For each application the right module

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 chanels 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.

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.

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.

Power supply modules

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

Analog signal modules

see digital signal modules.

Function modules

are intelligent modules which perform technological tasks independently.

Notes

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