YASKAWA

VIPA 200V

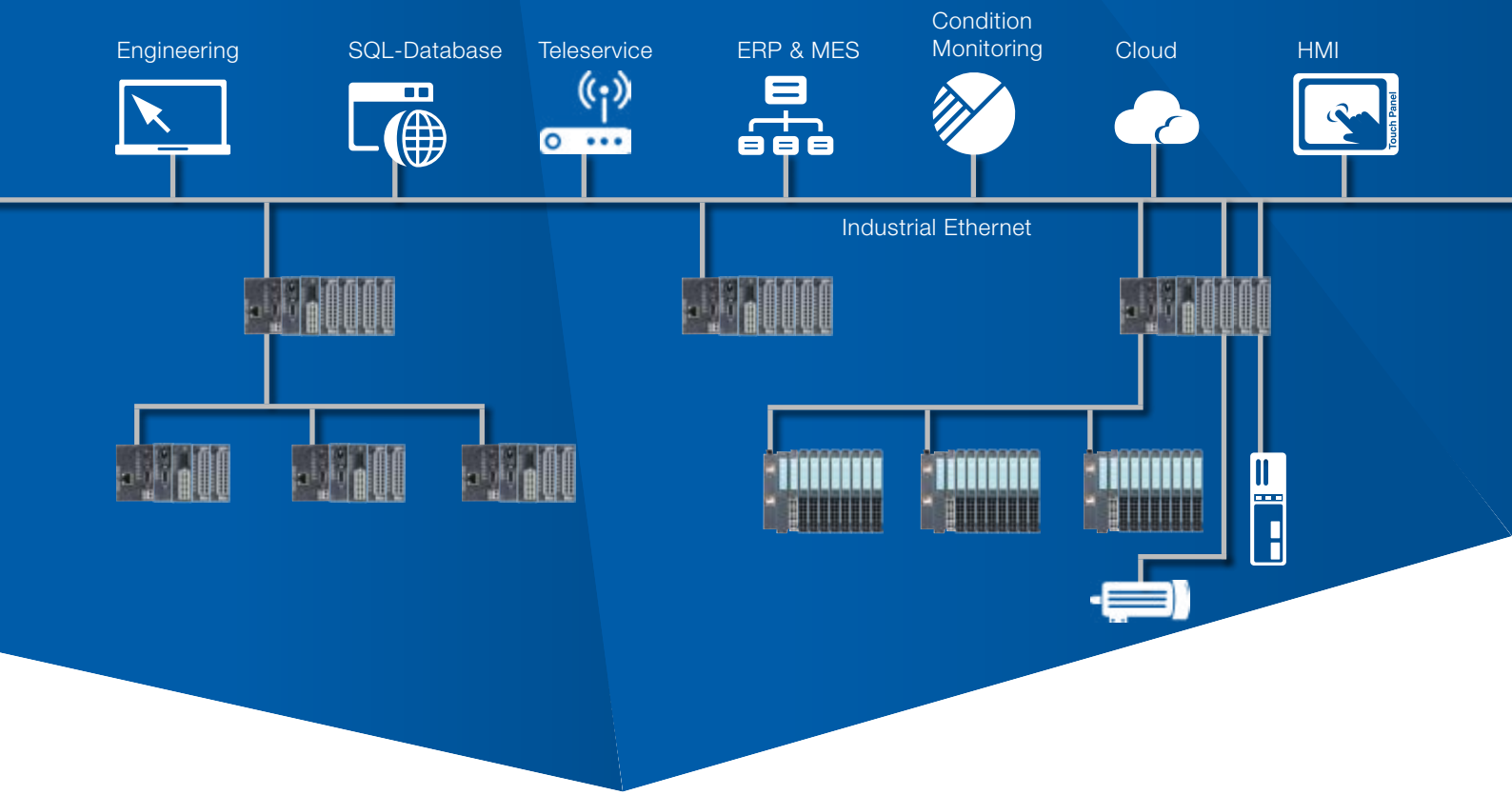
The modular control system

www.vipa.com

VIPA CONTROLS

VIPA 200V at a glance

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



VIPA 200V - 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

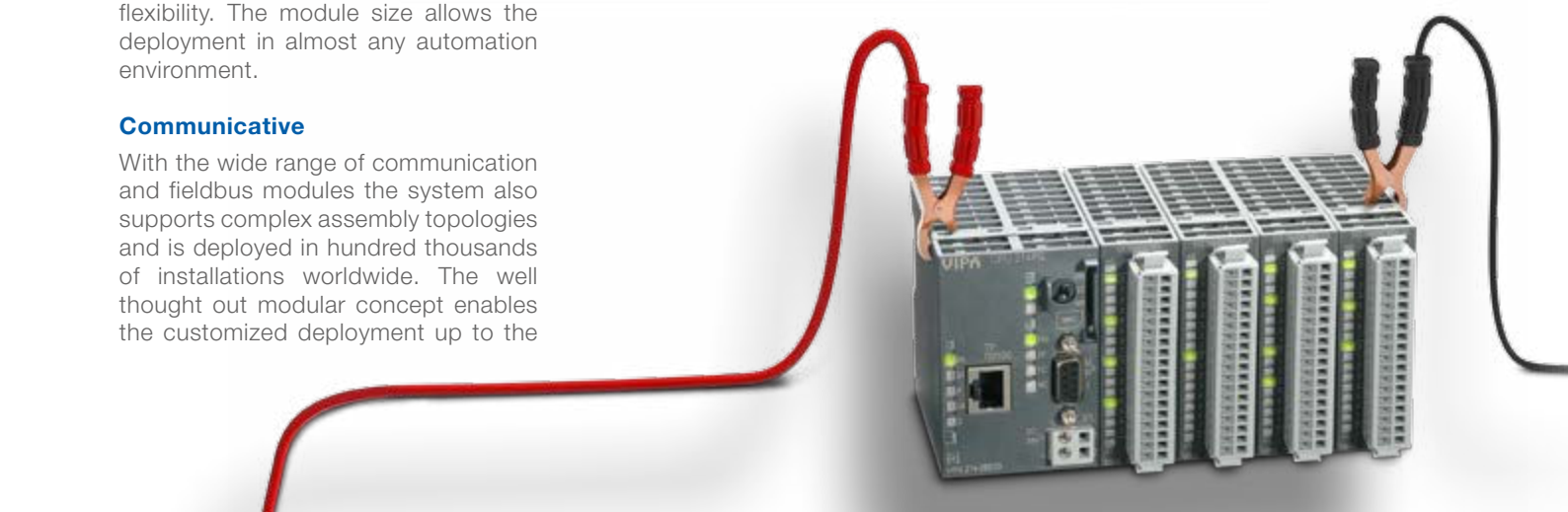
With the wide range of communication and fieldbus modules the system also supports complex assembly topologies and is deployed in hundred thousands of installations worldwide. The well thought out modular concept enables the customized deployment up to the middle power range – for almost every application.

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 programm and data
- Integrated battery-backed RAM memory
- Support of MMC cards for saving program and data



Flexible in every direction

Modbus

PROFIBUS

CANopen

DeviceNet

Step 7 code programmable with WinPLC7 from VIPA Controls 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 SPEED7 Studio and WinPLC7 from VIPA, or tools of other manufacturers in LAD, FDB and STL.

Memory

- Work and load memory already integrated.
- Operation without additional memory card.
- From 48 KB 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.

VIPA 200V - Overview

	215		215PG	215DPM	215DP	215SER	215SER_ RS232	215SER_ RS485	215NET	215CAN
Load memory [kB]	195		192	192	192	192	192	192	192	192
Work memory [kB]	128		128	128	128	128	128	128	128	128
	214	**214C**	**214PG**	**214DPM**	**214DP**	**214SER**	**214SER_ RS232**	**214SER_ RS485**	**214NET**	**214CAN**
Load memory [kB]	144	80	144	144	144	144	144	144	144	144
Work memory [kB]	96	96	96	96	96	96	96	96	96	96
RJ45 interface	0	0	1	0	0	0	0	0	1	0
Ethernet protocols	-	-	PG/OP	-	-	-	-	-	PG/OP, open communication (ISO on TCP, TCP/IP)	-
Sub-D interface	1	1	1	2	2	3	2	2	1	2
Serial & Fieldbus	MPI	MPI	MPI	MPI	MPI	MPI ASCII STX/ETX 3964(R)	MPI ASCII STX/ETX 3964(R) USS master Modbus-RTU	MPI ASCII STX/ETX 3964(R) USS master Modbus-RTU	MPI	MPI
Profibus slave	-	-	-	•	•	-	-	-	-	-
Profibus Master	-	-	-	•	-	-	-	-	-	-
Max. extension modules	32	32	32	32	32	32	32	32	32	32
Engineering tool	- SPEED7 Studio - SIMATIC Manager - TIA Portal -WinPLC7									

PROFIBUS® Modbus CANopen DeviceNet

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)	-	-	•	•	-

Digital Input		4x	8x	16x	32x
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	•

Fieldbus modules	Slave	Master
CANopen	•	•
CANopen (ECO)	•	-
DeviceNet	•	-
PROFIBUS (RS485)	•	•
PROFIBUS (FOC)	•	•
PROFIBUS ECO (RS485)	•	-
INTERBUS	•	-
Ethernet	•	-

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