



Micro control system compatible to S7-300 from Siemens



Technical Data	VIPA 112	VIPA 114	VIPA 115	VIPA 116
Work/Load memory	8 / 16 kB	16 / 24 kB	16 / 14 kB	16 / 24 kB
Bit memory	8192		for all variants	
Timer/Counter	128 / 256		for all variants	
I/O address range digital/analog	1024 Byte		for all variants	
Typ. Bit/Word processing time	0.25 / 1.2 µs		for all variants	

Memory expansion is available: ME 193A extends the memory to 24/32kB, ME 193B to 32/40kB.

Available variants of the CPUs 112-116:

112-4BH00	CPU 112 with DI 8(12)/DO 8(4), 1A
114-6BJ01	CPU 114 with DI 16(20)/DO 8(4), 1A
114-6BJ50	CPU 114R with DI 16/DO 8 Relay
115-6BL01	CPU 115 with DI 16(20)/DO 16(12), 1A
115-6BL11	CPU 115SER with DI 16(20)/DO 16(12), 1A
115-6BL21	CPU 115DP with DI 16(20)/DO 16(12), 1A
116-6BJ01	CPU 116 with DI 16(20)/DO 8(4), 1A and AI 4x10Bit U/I
116-6BJ11	CPU 116SER with DI 16(20)/DO 8(4), 1A and AI 4x10Bit U/I
116-6BJ21	CPU 116DP with DI 16(20)/DO 8(4), 1A and AI 4x10Bit U/I

4 DIs are parameterizable as counters or interrupts,
2 DOs as pulse out.
The SER variants include an additional RS232 interface,
the DP variants provide a Profibus-DP slave.

Available expansion modules:

123-4EH00	EM 123 with DI 8/DO 8, 1A
123-4EJ00	EM 123 with DI 16/DO 8, 1A
123-4EJ10	EM 123 with DI 16/DO 8 Relay
123-4EJ20	EM 123 with DI 16 AC 60...230V/DO 8 Relay
123-4EL00	EM 123 with DI 16/DO 16, 1A
131-4ED00*	EM 131 with AI 4x12Bit U/I
134-4EE00*	EM 134 with AI 4x12Bit/AO 2x12Bit U/I

The CPUs 112-116 of the System 100V from VIPA, including different I/O functions, are instruction set compatible to the S7-300 from Siemens. The programming is in STEP7 language from Siemens. Thus the modules of different manufacturers are easily combinable. The CPU variants 11x are an optimal automation device for small applications with up to 160 I/O points.

All CPUs include an MP2I interface, a MMC slot and a real-time clock. The MP2I interface not only supports the standard MPI communication, but also enables a cost effective point-to-point connection between PC and CPU by using the "Green Cable" from VIPA. An MPI adapter is not required.

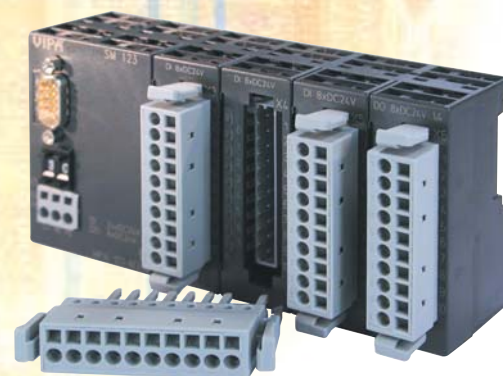
The CPUs allow the parameterization of 4 DIs as high-speed counters or as interrupts and of 2 DOs as pulse outs.

For data storage, a common MMC up to 64MB is pluggable that offers memory space for program, data, sources and documentation if you are using WinPLC7 from VIPA for programming. A free light version of this powerful programming software comes with every CPU of the System 100V. The light version works with System 100V only, but may be upgraded to the full version.

The VIPA System 100V-CPU's are expandable with up to 4 expansion modules to provide an optimal flexibility for your small application tasks.

VIPA Block I/O

Order no.	Description
VIPA 151-4PH00	SM 151 - Profibus-DP slave, DI 16xDC 24V
VIPA 151-6PH00	SM 151 - Profibus-DP slave, DI 16xDC 24V, 4x11 terminals
VIPA 151-6PL00	SM 151 - Profibus-DP slave, DI 32xDC 24V
VIPA 152-4PH00	SM 152 - Profibus-DP slave, DO 16xDC 24V, 1A
VIPA 152-6PH00	SM 152 - Profibus-DP slave, DO 16xDC 24V, 1A, 4x11 terminals
VIPA 152-6PH50	SM 152 - Profibus-DP slave, DO 16xRelay COM
VIPA 152-6PL00	SM 152 - Profibus-DP slave, DO 16xDC 24V, 1A
VIPA 153-4CF00	SM 153 - CANopen slave, DIO 8xDC 24V, 1A
VIPA 153-4CH00	SM 153 - CANopen slave, DI 8x/DIO 4x/DO 4xDC 24V, 1A
VIPA 153-4PF00	SM 153 - Profibus-DP slave, DIO 8xDC 24V, 1A
VIPA 153-4PH00	SM 153 - Profibus-DP slave, DI 8x/DO8xDC 24V, 1A
VIPA 153-6CH00	SM 153 - CANopen slave, DI 8x/DIO 4x/DO 4xDC 24V, 1A, 4x11 terminals
VIPA 153-6CL00	SM 153 - CANopen slave, DI 24x/DO 8xDC 24V, 1A
VIPA 153-6PH00	SM 153 - Profibus-DP slave, DI 8x/DO 8xDC 24V, 1A, 4x11 terminals
VIPA 153-6PL00	SM 153 - Profibus-DP slave, DI 16x/DO 16xDC 24V, 1A
VIPA 153-6PL10	SM 153 - Profibus-DP slave, DI 24x/DO 8xDC 24V, 1A



The VIPA System 100V Block I/Os are compact periphery units for Profibus-DP or CANopen. There are modules with different combinations of digital inputs and outputs available as you may see in the table above. There are also variants with terminal rows for the direct wiring with 2wire or 3wire connection. The modules are in an optimized price/performance ratio and allow a data transfer rate of up to 12MBaud for Profibus-DP and a data transfer rate between 10kbaud and 1Mbaud for CANopen. All modules provide a RS485 interface (9pin D-type).





VIP A System 100V

VIP A
art of automation

Micro-PLC for
STEP7 from Siemens

Expansion modules
for the Micro-PLC

Fieldbus
Block-I/O

Installation
& Accessories

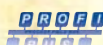
STEP7
MP21



CPU 112
• 8kB work/16kB load memory
• Real-time clock
• DI 8...12xDC 24V
• DO 4...8xDC 24V



Expansion module EM 123
• DI 8xDC 24V, DO 8xDC 24V, 1A
• DI 16xDC 24V,
• DO 8xRelay DC 30V/AC 230V, 5A
• DI 16xAC 60...230V,
• DO 8xRelay DC 30V/AC 230V, 5A
• DI 16xDC 24V, DO 8xDC 24V, 1A
• DI 16xDC 24V, DO 16xDC 24V, 1A



DI modules SM 151DP
• DI 16xDC 24V
• DI 16xDC 24V, 4x11 terminals
• DI 32xDC 24V



Terminal module CM 101
• 8x11 terminals

35mm DIN rail
530mm length, other
sizes upon request

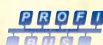
STEP7
MP21



CPU 114, CPU 114R
• 16kB work/24kB load memory
• PotI, Alarm In, Counter, Pulse Out, Clock
• expandable with up to 4 EM
• DI 16...20xDC 24V
• DO 8...4xDC 24V, 1A
• DI 16xDC 24V
• DO 8xRelay DC 30V/AC 230V, 5A



Expansion module EM 131
• AI 4x12Bit U/I



DO modules SM 152DP
• DO 16xDC 24V, 1A
• DO 16xDC 24V, 1A, 4x11 terminals
• DO 16x DO Relay DC 30V/AC 230V, 5A
• DO 32xDC 24V, 1A



Terminal module CM 101
• 12x11 terminals

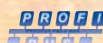
STEP7
MP21



CPU 115
• 16kB work/24kB load memory
• DI 16...20xDC 24V
• DO 16...12xDC 24V, 1A
• PotI, Alarm In, Counter, Pulse Out, Clock
• expandable with up to 4 EM
• Optional 2nd interface: DP-Slave or PtP



Expansion module EM 134
• AI 4x12Bit U/I,
• AO 2x12Bit U/I



DIO modules SM 153DP
• DIO 8xDC 24V, 1A, 2x11 terminals
• DI 8xDC 24V, DO 8xDC 24V, 1A,
• 4x11 terminals
• DI 8xDC 24V, DO 8xDC 24V, 1A
• DI 16xDC 24V, DO 16xDC 24V, 1A
• DI 24xDC 24V, DO 8xDC 24V, 1A

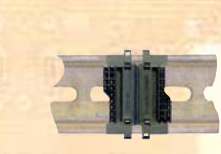


Green Cable
Programming and download cable for all
VIP A CPUs and Profibus fieldbus master.
Only PtP connection!

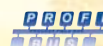
STEP7
MP21



CPU 116
• 16kB work/24kB load memory
• DI 16...20xDC 24V,
• AI 4x10Bit U/I,
• DO 8...4xDC 24V, 1A
• PotI, Alarm In, Counter, Pulse Out, Clock
• expandable with up to 4 EM
• Optional 2nd interface:
• DP-Slave or PtP/Modbus



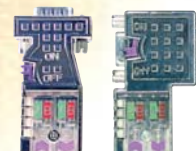
Bus connector
• 1tier for coupling
two modules



VIP A Block-I/O SM 157DP
• DIO 8xDC 24V, 1A, AI 4x0/4...20mA
• DIO 8xDC 24V, 1A, AI 2x0/4...20mA,
• AO 2x0/4...20mA
• DIO 8xDC 24V, 1A, AIO 4x0/4...10V



EasyConn PB 90°, 0°
D-Type connector for Profibus-DP with
integrated diagnosis and termination.



MMC - MultiMediaCard
• Memory module for VIP A CPUs
11x, 21x, 31x, 51x and fieldbus master



CANopen



DIO modules SM 153CAN
• DIO 8xDC 24V, 1A, 2x11 terminals
• DI 8xDC 24V, DIO 4xDC 24V, 1A,
• DO 4xDC 24V, 1A
• DI 8xDC 24V, DIO 4xDC 24V, 1A,
• DO 4xDC 24V, 1A, 4x11 terminals
• DI 24xDC 24V, DO 8xDC 24V, 1A

