



VIPA System 300V - Compact PLC CPU 314/315/316/317 for STEP 7 from Siemens

Compact PLC CPU 31x

The PLC CPU series 31x are components of the VIPA System 300V concept.

These powerful CPUs combine adequate memory capacity with a high processing speeds.

The range of functions of entire 31x family is scaleable.

A single CPU can interface with up to 32 modules.

In addition to the VIPA WinPLC7 programming software the user can also utilize the other tools that are available on the open market.

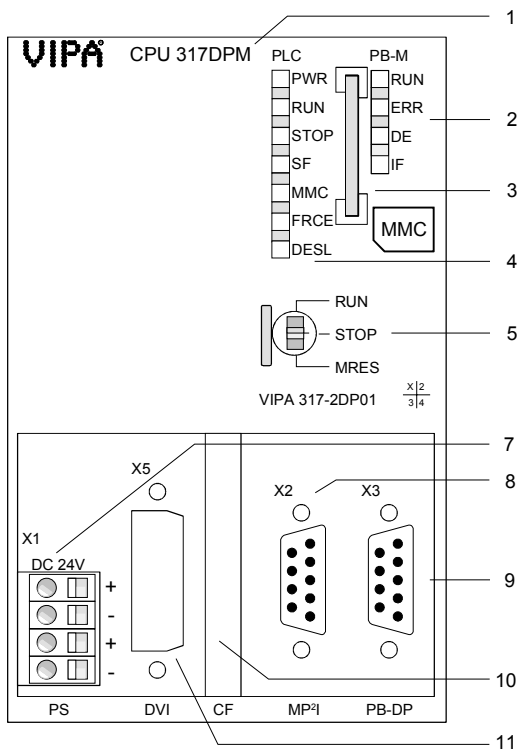
Features / properties

Here follow some of the distinctive properties of the compact CPU 31x:

- Instruction set compatible with the S7-300 from Siemens (except for CPU 318)
- MP²I interface: MPI (8 stat./8 dyn. connections) or serial for point-to-point connections to a PC
- Integrated Profibus-DP-slave
- Ext. memory (MMC) for storage of programs /data/source code/commentaries, etc.
- Scaleable performance and operation for all CPUs
 - Profibus DP master
 - Ethernet CP 343 with RJ45 / 4port Switch



Front view:



Indicators / controls / connectors:

- [1] CPU type identifier
- [2] LED indicators of the integrated Profibus master
- [3] Socket for MMC memory card
- [4] LED indicators of the CPU
- [5] Operating mode selector switch CPU
RUN/STOP/RESET

The following components are protected by a cover

- [7] Connector for 24V DC power supply
- [8] X2: MP²I interface
- [9] X3: Profibus interface
- [10] Opening for CompactFlash socket (in conjunction with the webmaster option)
- [11] DVI socket

Technical data	CPU 314	CPU 315	CPU 316	CPU 317
Electrical data				
Rated voltage	24V DC	24V DC	24V DC	24V DC
Max. current consumption	1.1A	1.1A	1.1A	1.1A
System data				
Memory	96kB	192kB	256kB	512kB
Load memory	144kB	256kB	512kB	1024kB
External memory	MMC	MMC	MMC	MMC
Battery-backup/clock	yes	yes	yes	yes
Bit memory	8192	8192	8192	8192
Timers/Counters	256/256	256/256	256/256	256/256
Addressable I/O digital channels	1024	1024	1024	1024
analog channels	128	128	128	128
typ. cycle times bit/word (ms/k answ.)	0.18/0.78	0.18/0.78	0.18/0.78	0.18/0.78
Blocks	OB1/10/20/35/40/80/82/85//86/100/212/122 FBs 1024 FCs 1024 DBs 2047			
MP²I interface	MPI:	8 stat./8 dyn. connections (187KBaud)		
	RS232:	38.4KBaud		
Number of modules	up to 32 modules in a single row			
Operating conditions	Operating temperature 0°C...+60°C Storage temperature -25°C...+70°C Relative humidity 0...95% without condensation Vibration/shock immunity in acc. with IEC 60068-2-6/IEC 60068-2-27 (1G/12G) EMV/BURST/ESD in acc. with IEC 61000-4-2/IEC 61000-4-4 (to level 3)			
Dimensions	Widthxheightxdepth 80x125x120 (in mm incl. controls)			
Ordering details	VIPA 314-	VIPA 315-	VIPA 316-	VIPA 317-
CPU w. integr. DP slave	1SL01	1SL01	1SL01	1SL01
CPU w. integr. master	2DP01	2DP01	2DP01	2DP01
CPU w. integr. DP slave, Ethernet TCP/IP-CP	3SL01	3SL01	3SL01	3SL01
CPU w. integr. DP slave/master, Ethernet CP 343	3DP01	3DP01	3DP01	3DP01
CPU w. integr. CANopen Slave/Master	2CA01	2CA01	2CA01	2CA01
CPU w. integr. CANopen Slave/Master w. CP343	3CA01	3CA01	3CA01	3CA01
Accessories	Alu-DIN-Rail, 530mm MMC Green cable WinPLC 7 Manual			
	VIPA 390-1AF30 VIPA 953-0KX10 VIPA 950-0KB00 VIPA SW871 VIPA HB131E			