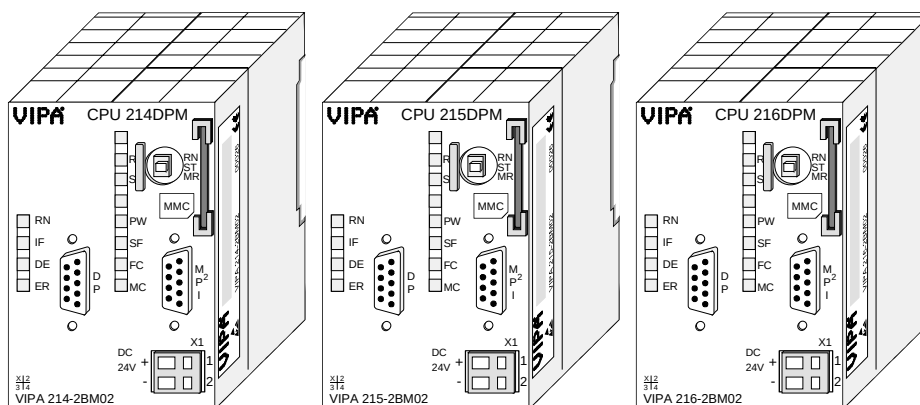


Manual VIPA System 200V
Chapter 3 Hardware description
CPU 21xDPM

Identical to CPU 21x, additionally with:

- Integrated PROFIBUS-DP master
- Status-LEDs for PROFIBUS status and diagnostics


**Order data
CPU 21xDPM**

Type	Order number	Description
CPU 214DPM	VIPA 214-2BM02	PLC CPU 214 with PROFIBUS-DP master and 48/80KB of work/load memory
CPU 215DPM	VIPA 215-2BM02	PLC CPU 215 with PROFIBUS-DP master and 96/144KB of work/load memory
CPU 216DPM	VIPA 216-2BM02	PLC CPU 216 with PROFIBUS-DP master and 128/192KB of work/load memory

Chapter 3 Hardware description

Manual VIPA System 200V

CPU 21xDPM

Electrical Data	VIPA 214-2BM02 ... VIPA 216-2BM02
Power supply	DC 24V (20.4 ... 28.8V)
Current consumption	max. 1.5A
Dissipation power	max. 5W
Potential separation	≥ 500V AC to fieldbus
Status monitoring (LEDs)	like CPU 21x additionally with LEDs for the PROFIBUS section
Adapters/interfaces	like CPU 21x additionally with 9pin D-type jack (PROFIBUS)
PROFIBUS interface	
Connector	9pin D-type jack
Network topology	Linear bus, active bus termination at both ends
Medium	Screened and drilled twisted pair cable. Depending on environment screening may be omitted.
Transfer rate	9.6kbit/s up to 12Mbit/s
Overall length	100m at 12 Mbit/s without repeater, up to 1000m with repeater
max. no. of stations	32 stations on every segment without repeater. Expandable to 126 stations with repeater.
Combination with peripheral modules	
max. number of slaves	125
max. number of input bytes	1024
max. number of output bytes	1024
Dimensions and Weight	
Dimensions (WxHxD) in mm	50.8x76x80
Weight	150g

CPU 21xDP

Electrical data	VIPA 214-2BP02 ... VIPA 216-2BP02
Power supply	DC 24V (20.4 ... 28.8V)
Current consumption	max. 1.5A
Dissipation power	max. 5W
Potential separation	≥ 500V AC to fieldbus
Status indicator (LEDs)	like CPU 21x additionally with LEDs for the PROFIBUS section
Adapters/interfaces	like CPU 21x additionally with 9pin D-type jack (PROFIBUS)
PROFIBUS interface	
Connector	9pin D-type jack
Network topology	Linear bus, active bus termination at both ends
Medium	Screened and drilled twisted pair cable. Depending on environment screening may be omitted.
Transfer rate	9.6kbit/s up to 12Mbit/s
Overall length	100m at 12 Mbit/s without repeater, up to 1000m with repeater
max. no. of stations	32 stations on every segment without repeater. Expandable to 126 stations with repeater.
Dimensions and weight	
Dimensions (WxHxD) in mm	50.8x76x80
Weight	150g

Chapter 8 Deployment CPU 21xDP

Manual VIPA System 200V

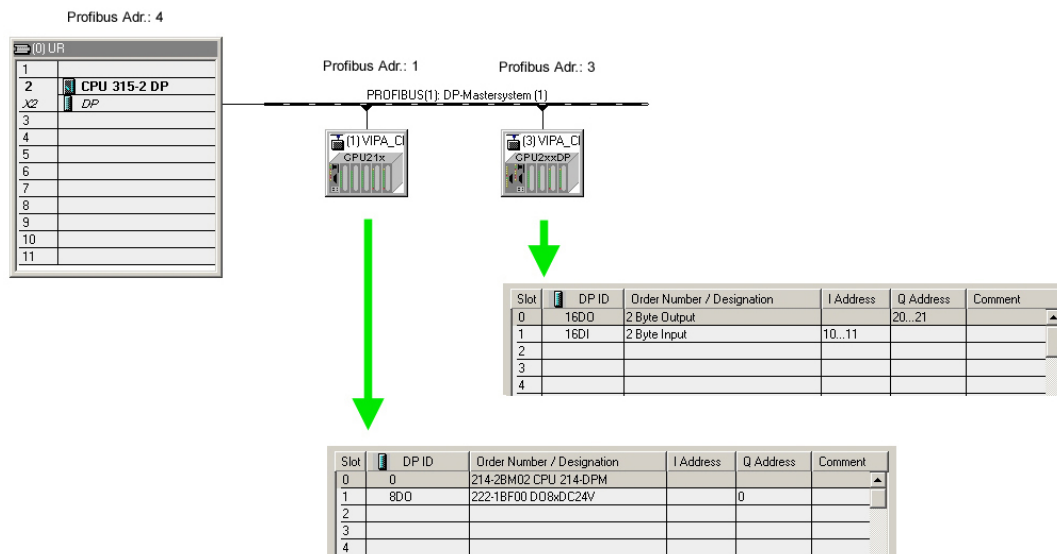
Configuration of CPU 21xDPM

To be compatible to the Siemens SIMATIC manager, you have to execute the following steps for the System 200V:

- Start the hardware configurator from Siemens.
- Install the GSD-Datei VIPA_21x.gsd.
- Configure a CPU 315-2DP with DP master system (address 4).
- Add a PROFIBUS slave **"VIPA_CPU21x"** at address 1.
- Include the CPU **214-2BM02** at the 1st slot of the slave system.
- Include the output module 222-1BF00.

For linking-up the CPU 21xDP you have to execute the following steps after including the GSD-file (VIPA04d5.gsd):

- Add the PROFIBUS slave **"VIPA_CPU2xxDP"** (address 3). The DP slave is in the hardware catalog under:
PROFIBUS-DP > Additional field devices > I/O > VIPA_System_200V > VIPA_CPU2xxDP.
- Assign memory areas of the CPU to the in- and output of the PROFIBUS-DP master section in form of Byte blocks. For this, you have to include the "2Byte output" element on the 1st slot and select the output address 20. Include the "2Byte input" element on the next slot and select the input address 10.
- Save your project.





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PRODUCT: 214-2BM02 / System 200V CPU 214DPM with PROFIBUS-DP Master

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