

How to do

a System 200V hardware configuration with Simatic Manager from Siemens

1. Start the Simatic Manager from Siemens, open a new project.
2. Insert a 300 station
3. Open the Hardware Configurator
4. In the HW Configurator, open the catalog,
5. insert a 300 Rack,
6. insert the CPU 315-2DP (6ES7 315-2AF03-0AB0).
Now a dialog opens where you click on *New* for a new DP line
7. The next dialog opens where you click on *OK* and again on *OK*.
Now you should see a CPU315-2DP with attached DP line.
8. For the next steps, the GSD file VIPA_21X.GSD must be installed in the hardware catalog.
9. In the HW catalog, open the *PROFIBUS-DP note*, then open *I/O, VIPA* (see picture below).
10. Move the object VIPA_CPU21x with the mouse close to the profibus line.
11. In the dialog *Properties – PROFIBUS interface* select the *DP address 1* and click on *OK*.
12. Now a virtual DP slave is attached to the Profibus (see picture below)
13. Go again in the catalog and open the object VIPA_CPU21x.
Now you can see all the available modules for the CPU21x.
14. In the grid on the left bottom, select the *Slot 0* for insertion of modules.
15. In the HW catalog search the correct CPU type, e.g. 214-1BA01 CPU214, double click on it.
Now you can see it in slot 0 (see picture below)
16. Insert all the modules that are used in your local System 200V station.
17. When finished, go to the menu *Station > Save and Compile* for the whole configuration to be compiled and saved.
18. Connect the MPI or the VIPA Green Cable to the PLC and your PC.
19. With the menu *PLC > Download...*, you transfer the HW configuration to your PLC.
20. Now start the PLC with the Run/Stop switch at the frontside. If the configured modules are attached to the PLC, then it should go into the RUN state.
21. Close the HW configurator.

How to do

HW Config - [SIMATIC 300(1) (Configuration) -- Example]

Station Edit Insert PLC View Options Window Help

Profile: Standard

PROFIBUS DP

- Additional Field Devices
- General
- Drives
- I/O
- VIPA
- VIPA_System_100V
- VIPA_System_200V
 - VIPA_CPU2xxDP
 - VIPA_DP200V_2
 - VIPA_CPU21x
 - Universal module
 - 208-1DP01 IM208 DF
 - 208-1DP10 IM208 DF
 - 208-2DP10 IM208 DF
 - 208-1CA00 IM208 CA
 - 214-1BA01 CPU 214
 - 214-1BA02 CPU 214
 - 214-1BC02 CPU 214
 - 214-2BP01 CPU 214
 - 214-2BP02 CPU 214
 - 214-2BP51 CPU 214

(1) VIPA_CPU21x

Slot	Module / ...	Order number	I Address	Q Address	C...
0	0	214-1BA01 CPU 214			
1	8DI	221-1BF00 DI8xDC24V	0		
2	8DO	222-1BF00 DO8xDC24V		0	
3					
4					
5					
6					
7					
8					
9					

Press F1 to get Help. Chg

Example hardware configuration