

Point-to-point connection

Point-to-point link via communications processors (CPs) is an extremely powerful and low-cost alternative to bus systems. The advantage of point-to-point links over bus systems is especially pronounced when only a few (RS 485) devices are to be connected to the SIMATIC S7.

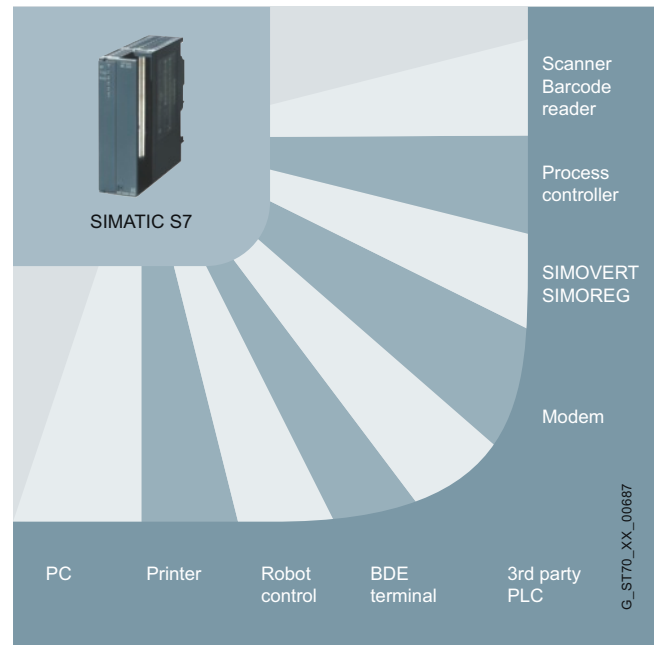
The CPs can also easily link third-party systems to the SIMATIC S7. Thanks to the great flexibility of the CPs, different physical transmission media, transmission rates or even customized transmission protocols can be implemented.

The CPs have a rugged plastic housing with LEDs for displaying operating states and faults.

For each CP there is a configuring package on CD with electronic manual, parameterization screen forms and standard function blocks for communication between the CPU and the CP.

The configuration data are stored in a system block and backed up in the CPU. When modules are replaced, the new module is therefore immediately ready for use.

With the S7-400 point-to-point link modules, adaptation to the physical transmission media is achieved by plugging in the relevant interface submodules, without the need for external converters.



Point-to-point links for SIMATIC S7-400

Technical data: Point-to-point connection			
Application	High-speed response with low data volumes	Interconnection	
		Low-cost: With one variable interface	High-speed: With two variable interfaces
Transmission rate	High (115 200 bit/s)	Low (38 400 bit/s)	High (115 200 bit/s)
Loadable protocols (Order No. group: 6ES7 340-)			MODBUS Master (-1AA.), MODBUS Slave (-1AB.), Data Highway (-1AE.)
Module	CP 440	CP 441-1	CP 441-2
Order No. group: 6ES7	440-1.	441-1.	441-2.
Physical transmission media			
RS 232C (V.24)		All transmission methods, all interface modules, plug-in, serial	
20 mA (TTY)			
RS 422/485 (X.27)	● (up to 32 nodes)		
Integrated transmission protocols			
ASCII	●		
Printer driver		●	
3964 (R)	●		
RK 512			●