CPU range

A graded CPU range with a wide performance range is available for configuring the controller. Thanks to their high processing speed, the CPUs enable short machine cycle times. The narrow module width results in a compact controller design or a small control cabinet.

The CPUs are available from a width of only 40 mm. Fail-safe CPUs are available for safety-oriented applications. The PROFIsafe profile for safe communication via PROFIBUS and PROFINET allows the integration of safety-related functions into standard automation environments.

Compact CPUs with widths of 80 or 120 mm also offer integral I/O and integral technological functions. This onboard I/O (digital/analog) and the technological functions save additional investments in other modules.

Six performance classes of the S7-300 CPUs (firmware V3.x and higher)

1) Connections stand for internal resources of the CPU for the communication with PGs/OPs and over blocks. The standard bus communication and the PtP coupling do not require connections. The PN CPUs offer 8, 16 or 32 (CPU 319) additional connections for TCP/IP, UDP, and ISO-on-TCP.