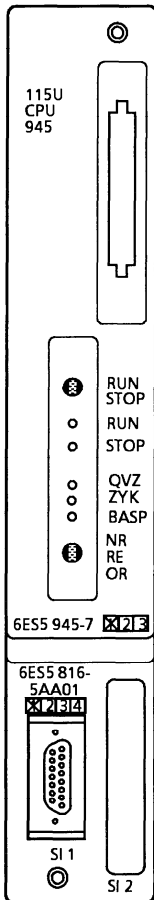


15.2.3 Central Processing Units

Central Processing Unit CPU 941

(6ES5 945-7UA1./2.)

	Technical Specifications	
	Memory capacity (total) - internal memory - memory submodule (Flash-EPROM)	maxim. 256/384 Kbyte maxim. 256/384 Kbyte maxim. 128/256/384 Kbyte
	Execution time per operation	approx. 0.1 µs - 1.35 µs
	Clock - Accuracy t_a - Temperature dependency t_D (ambient temperature T_{amb} in °C) - e. g. Tolerance at 40°C	$\pm 2s$ /day $-3.5 \times (T_{amb}-15)^2$ ms /day $\pm 2s - 3.5 \times (40-15)^2$ ms/day approx. 0 to -4s /day
	Scan time monitoring	approx. 500 msec. (can be modified)
	Flags	2048; optionally half or all retentive ¹
	S flags	32768; optionally half or all retentive ¹
	Timers - number - range	256; optionally half or T 0 to 63 retentive ¹ 0.01 to 9990 sec.
	Counter - number - range	256; optionally half or C 0 to 63 retentive ¹ 0 to 999 (up, down)
	Digital inputs Digital outputs - total	maxim. 8192
	Analog inputs Analog outputs - total	maxim. 256
	Organization blocks Program blocks Funktion blocks (FB/FX)	maxim. 256 maxim. 256 maxim. 512 (can be assigned parameters)
	Sequence blocks Data blocks (DB/DX)	maxim. 256 maxim. 512
	Operation set	approx. 270 operations
	Required backup current from the backup battery at power off - internal RAM	approx. 100 µA
	Current consumption (without interface module) - from 5 V (internal) - from 24 V	typically 0.5 A 0.06 A
	Power losses of the module (without interface module)	typically 4.2 W
	Weight	approx. 0.8 kg (1.7 lb)
	¹ If backup battery used	