Technical data: Fail-safe CPUs

Fail-safe CPU	CPU 315F-2 DP [1]	CPU 315F-2 [1] PN/DP	CPU 317F-2 DP [1]	CPU 317F-2 [1] PN/DP	CPU 319F-3 PN/DP
Dimensions (mm)	40 x 125 x 130		80 x 125 x 130	40 x 125 x 130	120 x125 x130
Order No. group: 6ES7	315-6FF.	315-2FJ.	317-6FF.	317-2FK.	318-3FL.
Firmware	V3.0	V3.2 [4] NEW	V2.6	V3.2 [4] NEW	V3.2 [4] NEW
Memory					
Main memory	384 KB	512 KB NEW	1 MB	1.5 MB	2.5 MB
Processing times					
Bit operation	0.05 µs			0.025 µs	0.004 µs
Word operation	0.09 µs		0,2 µs	0.03 µs	0.01 µs
Fixed-point operation	0.12 µs		0,2 µs	0.04 µs	0.01 µs
Floating-point operation	0.45 µs		1 µs	0.16 µs	0.04 µs
Bit memories/timers/counters					
Bit memory	2 048 bytes		4 096 bytes		8 182 bytes
S7 timers/S7 counters	256 / 256		512 / 512		2 048 / 2 048
IEC timers/IEC counters	● *)				
Address ranges					
Number of I/Os (bytes)	2 048 / 2 048		8 192 / 8 192		
Process image I/O (bytes), max.	2 048 / 2 048		2 048 / 2 048	8 192 / 8 192	
Digital channels (central)	1 024				
Analog channels (central)	256				
DP interfaces					
DP master systems (int./CP)	● / ●				
DP slave	●				
PROFINET interface					
PROFINET CBA		●		●	
PROFINET IO		●		●	
PROFINET with IRT		● [3]		● [3]	
Open User Communication (OUC)					
• TCP/IP		●		●	
• UDP		●		●	
• ISO-on-TCP (RFC 1006)		●		●	
Web server		●		●	
Data set gateway [2]		●		●	

[1] As SIPLUS extreme component also for extended temperature range -25 ... +60/+70 °C and corrosive atmosphere/condensation (for further details, see Page 90 or **www.siemens.com/siplus-extreme**)

[2] Explanation, see Page 52 bottom right

[3] Send cycles up to 250 µs

[4] Available soon

*) Via SFB, number unlimited or limited only by main memory