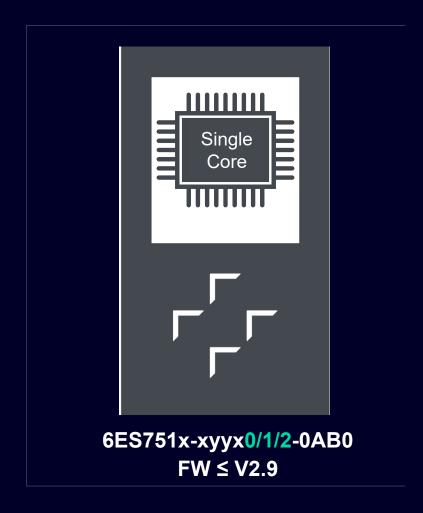
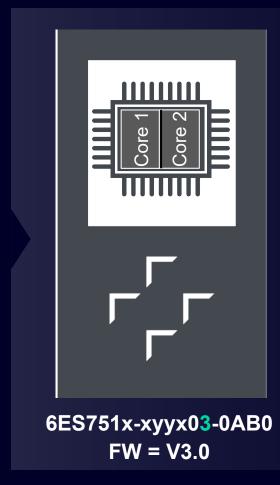
New Hardware for CPUs ≤ 1516 starts with FW V3.0 & TIA Portal V18





New Hardware with 2 Core Processor

- Core 1
 - User program
 - Diagnoses
- Core 2
 - Communication

New Display implementation

Benefits

- → Deterministic program processing (smaller jitter)
- → Higher communication performance
- → No separate Display FW needed

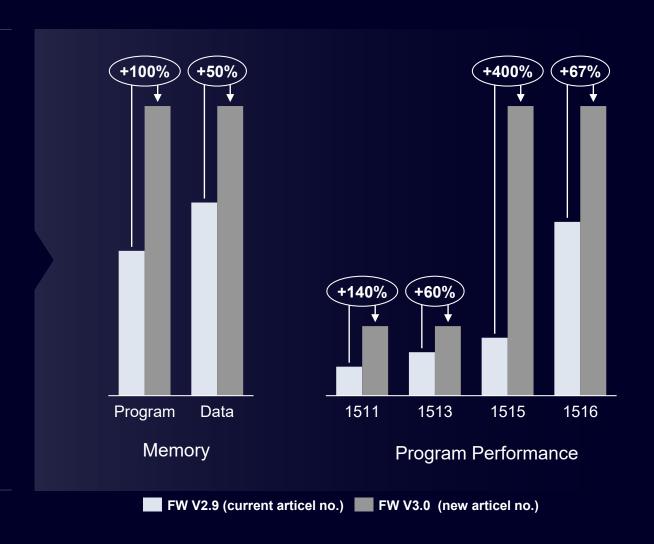
New Hardware for CPUs ≤ 1516 starts with FW V3.0 & TIA Portal V18

The new hardware offers

- More memory
- More Performance
- Higher communication performance (2nd core)

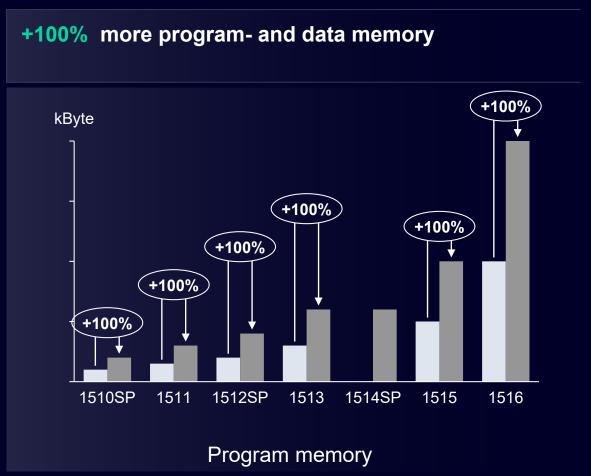
2nd / 3rd Step:

- Gbit Ethernet on X2 of the CPU 1515 /1516
- 2nd PN Interface with IRT

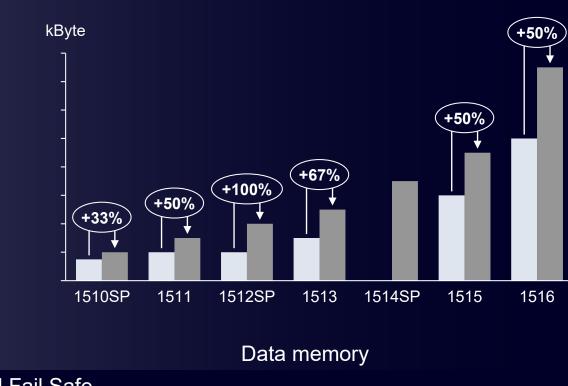




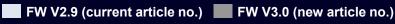
New Hardware for CPUs ≤ 1516 starts with FW V3.0 & TIA Portal V18



more resources for future customer application extensions

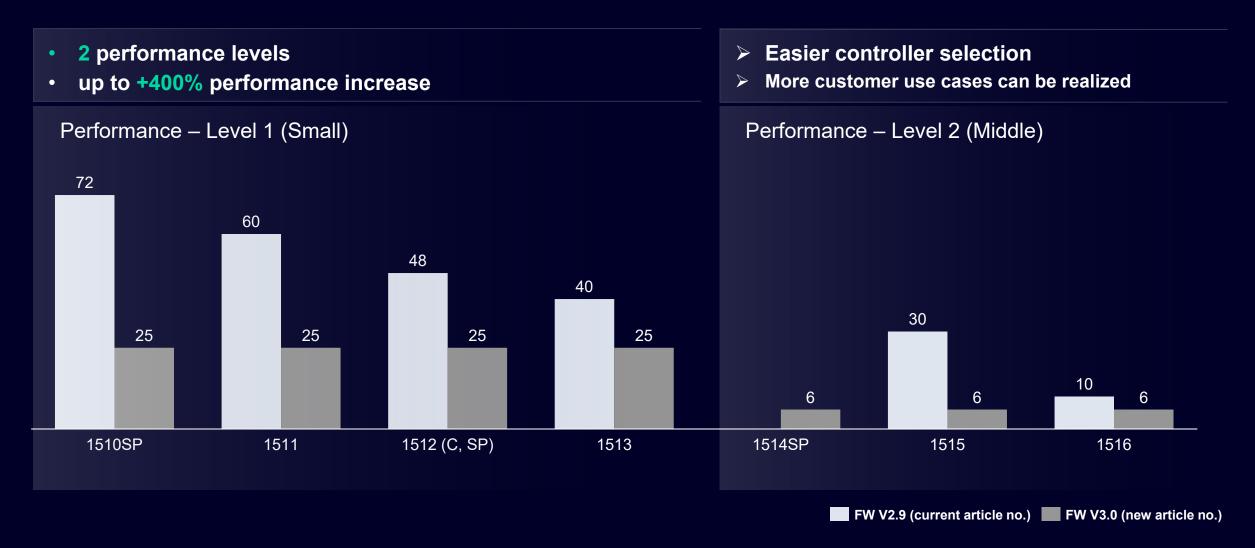


Standard and Fail Safe





New Hardware for CPUs ≤ 1516 starts with FW V3.0 & TIA Portal V18



SIMATIC Hardware Increase/harmonization of quantity structure

Ambient temperature • CPU 1511-1516 from -25°C - +60°C → -30°C - +60°C	 Same temperature range as most of IO modules Usable in more customer applications Easier controller selection
 Retentive Data CPU 1510SP-1513 from 128 kB to 256 kB 	More memory space to prevent data loss in the event of power failure
Min. OB 3x cycle • CPU 1510SP-1515 from 500μs to 250μs	More frequent processing of program parts
 UDP multicast circuits CPU 1510SP-1513 from 5 to 78 CPU 1515-1516 from 5 to 118 	Significantly more participants can be reached via UDP Multicast

New ET 200SP CPU 1514SP (F/T/TF)-2 PN with FW V3.0 & TIA Portal V18

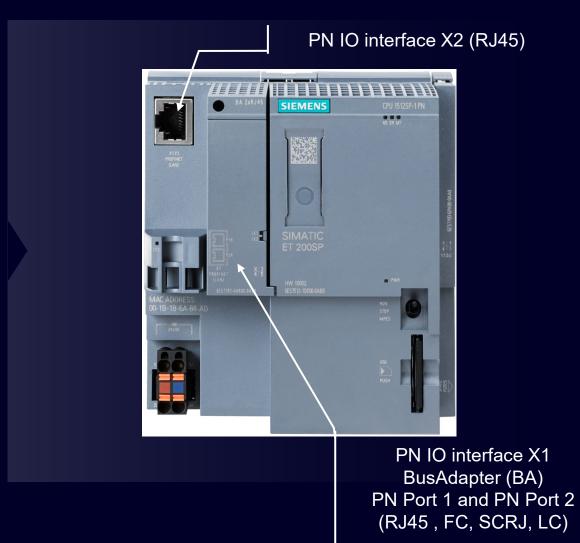
- Comparable with memory concept, quantity structure and features of a SIMATIC S7-1500 CPU 1515(F) - 2 PN CPU
- Work memory

Program: 600/900 kByte,

Data: 3,5 MByte

Performance: Bit instruction time: 6 ns

- 2 PROFINET IO interfaces
 - PN IO interface X1
 - PROFINET RT/IRT
 - different BusAdapter with 2 Ports
 - PN IO interface X2
 - PROFINET RT



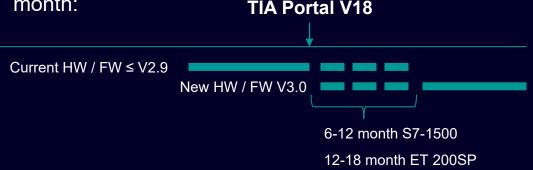
Compatibility

1. CPU 1510SP to CPU 1516

FW V3.0 only for new article numbers



Parallel delivery of the old and new HW for 6-12 month: TIA Portal V18



2. CPU 1517/1518

- Same HW as today
- New functionality with FW V3.0 upgrade also for existing CPUs
- 3. Compact and ET 200pro CPUs
 - Same HW and FW (V2.9) as today
 - No new functionality with TIA Portal V18!
- 4. Support of FO/LC BusAdapter for ET 200SP CPUs 1512SP(F) first with 2nd step (TIA Portal V19)