



Engineered
in the
TIA Portal

So strong and so compact

Space-saving versions of the SIMATIC S7-1500 Advanced Controller

CPU 1511C and CPU 1512C

Added value, small space requirement

The two S7-1500 compact CPUs 1511C and CPU 1512C round off the SIMATIC S7-1500 product line. These CPUs are designed for an application where space-saving is a requirement, as in OEM machine manufacturing.

Both S7-1500 compact CPUs are characterized by high performance. Technology functions such as counting, measuring and positioning are integrated in the hardware. The engineering is performed using TIA Portal – with its uniform control concept for consistent functionality.

The 1500C provides the further customer benefits of low acquisition costs with integrated technological functions and IO. No additional modules need to be purchased for this functionality. The result is reduced inventory.

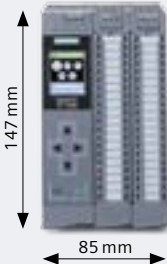

Highlights

- CPU as well as inputs and outputs in one enclosure
- High bit performance: CPU 1511C-1 PN with 60 ns and CPU 1512C-1 PN with 48 ns
- Efficient engineering in the TIA Portal
- Functional consistency and scalability within the Advanced Controllers – in both price and performance

Progress within narrow confines: CPU 1511C and CPU 1512C

With a width of 85 mm, the CPU 1511C-1 PN provides 32 digital IO ports as well as 5 analog inputs and 2 analog outputs. The CPU 1512C-1 PN is a mere 110 mm wide and features 64 digital IO connections, 5 analog inputs and 2 analog outputs.

If required, they can be expanded to include additional connections using signal modules to make them a perfect fit for your specific requirements.

Technical specifications		
	CPU 1511C-1 PN	CPU 1512C-1 PN
Width	85 mm (extendable using 25/35 mm IO modules)	110 mm (extendable using 25/35 mm IO modules)
PROFINET interface with 2 ports	Yes	Yes
PROFINET IRT	Yes	Yes
Web server	Yes	Yes
Display	Yes	Yes
Work memory	175 kB program, 1 MB data	250 kB program, 1 MB data
Bit performance	60 ns	48 ns
Integral digital inputs/outputs	<ul style="list-style-type: none"> • 16 DI • 16 DO 	<ul style="list-style-type: none"> • 32 DI • 32 DO
Integral analog inputs/outputs	4 AI (U/I) + 1 AI RTD, 2 AO (U/I)	4 AI (U/I) + 1 AI RTD, 2 AO (U/I)
Technology integration	<ul style="list-style-type: none"> • 6 x HSC, 100 kHz • 4 x PTOs/PWMs, 100 kHz* 	<ul style="list-style-type: none"> • 6 x HSC, 100 kHz • 4 x PTOs/PWMs, 100 kHz*
Configurable with	STEP 7 V13 SP1 Update 4	STEP 7 V13 SP1 Update 4

*not in the first stage of delivery (possible with later firmware version)