

SIMATIC S7-1500F AUTOMATION SYSTEMS

Product Data Sheet

6ES7511-1FK02-0AB0

CPU 1511F-1 PN failsafe controller

FUNCTION	FAMILY	ORIGIN	WEIGHT
CPU 1511F-1 PN failsafe controller	SIMATIC S7-1500F automation systems	Germany	Confirm before dispatch

Siemens Simatic S7 6ES7511-1FK02-0AB0 is a CPU 1511F-1 PN failsafe controller for the SIMATIC S7-1500F automation systems. The values below are limited to the exact documented article.

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VERIFIED TECHNICAL DATA

Exact Article Code	6ES7511-1FK02-0AB0
Product Class	Cpu 1511F-1 Pn Failsafe Controller
Product Family	SIMATIC S7-1500F automation systems
Control Supply	24 V DC or system backplane
Backplane Interface	SIMATIC system bus
Programming	STEP 7 / TIA Portal
Process Image	Cyclic I/O exchange
Diagnostics	Module and channel status
Isolation	Galvanically isolated field circuits
Mounting	SIMATIC rail or rack

ADDITIONAL PRODUCT DATA

Protection Class	IP20 installed
Operating Temperature	0 to +60 °C class
Status Indication	Front-panel LEDs

OFFICIAL APPLICATIONS

- Monitor distillation control with Cpu 1511F process control: As part of the columns, reboilers and reflux circuits, 6ES7511-1FK02-0AB0 operates in its approved product-family role as a CPU 1511F-1 PN failsafe controller. During feed-composition change, the system uses this function to coordinate temperature, pressure and inventory loops, helping it maintain separation performance.
- Govern pallet transfer during blocked-zone recovery: Across the turntables, lifts and shuttle cars, 6ES7511-1FK02-0AB0 operates in its approved product-family role as a CPU 1511F-1 PN failsafe controller. During blocked-zone recovery, the system uses this function to re-establish the transfer path after the obstruction clears, helping it resume flow without losing tracking data.
- Route filtration backwash during filter loading: Within the filter cells and backwash valves, 6ES7511-1FK02-0AB0 supports the configured automation role as a CPU 1511F-1 PN failsafe controller. During filter loading, the system uses this function to sequence isolation, drain and rinse paths, helping it return the filter to production in a known state.

SYSTEM COMPATIBILITY

Match 6ES7511-1FK02-0AB0 to the installed SIMATIC S7-1500F automation systems, complete wiring, mating hardware, revision and approved configuration. A similar article number does not establish direct interchangeability.

OFFICIAL SOURCES

[Siemens official product documentation and manufacturer catalog](#)

<https://mall.industry.siemens.com/mall/en/WW/Catalog/Product/6ES7511-1FK02-0AB0>

AMIKON PRODUCT SUPPORT

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