

6ES7315-2EG10-0AB0

SIMATIC S7-300 CPU 315-2 PN/DP

Siemens 6ES7315-2EG10-0AB0 is a SIMATIC S7-300 CPU 315-2 PN/DP with 128 KB working memory, an MPI/DP interface and an Ethernet PROFINET interface. It executes the PLC program and coordinates configured distributed I/O an

BRAND	Siemens	FAMILY	Siemens SIMATIC S7-300
PART	6ES7315-2EG10-0AB0	SYSTEM ROLE	Executes the configured S7 control program

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6ES7315-2EG10-0AB0

MANUFACTURER SOURCE RECORD

SIMATIC S7-300 CPU 315-2 PN/DP Product Record and CPU Installation Instr
Siemens Industry Mall MLFB 6ES7315-2EG10-0AB0; A5E00105492-12

Product Overview

SYSTEM FUNCTION

Siemens 6ES7315-2EG10-0AB0 is a SIMATIC S7-300 CPU 315-2 PN/DP with 128 KB working memory, an MPI/DP interface and an Ethernet PROFINET interface. It executes the PLC program and coordinates configured distributed I/O an

FUNCTION 1

Executes the configured S7 control program

FUNCTION 2

Coordinates the installed distributed-I/O topology

FUNCTION 3

Maintains deterministic communication with configured automation peers

FUNCTION 4

Provides CPU and network diagnostic evidence for commissioning

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Siemens SIMATIC S7-300
Primary interface	Executes the configured S7 control program
Engineering context	The CPU works with an S7-300 mounting rail, power supply, signal modules and the configured PROFIBUS and PROFINET devices. Commissioning follows the documented S7-300 installation sequence and includes MMC compatibility, hardware
Commissioning duty	Complete controlled input, output, interlock and restart tests before release.

TECHNICAL NOTE

Install 6ES7315-2EG10-0AB0 in the documented S7-300 rack position with the required Micro Memory Card and 24 V DC supply. Before replacement, archive the STEP 7 project, MPI/DP and PROFINET identities and diagnostic buffer; a

Technical Data

PARAMETER	VALUE	PARAMETER	VALUE
CPU designation	CPU 315-2 PN/DP	Load memory	Micro Memory Card required
Working memory	128 KB	Supply voltage	24 V DC
Interface 1	MPI/DP, 12 Mbit/s	Operating temperature	0 to 60 °C
Interface 2	Ethernet PROFINET	Product lifecycle	Discontinued; successor 6ES7315-2EH14-0AB0

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
6AU1455-2AD00-0AA0	SIMOTION controller	View 6AU1455-2AD00-0AA0 page
6SL3120-2TE21-0AA4	motor module	View 6SL3120-2TE21-0AA4 page
6SL3320-1TE33-1AA3	motor module	View 6SL3320-1TE33-1AA3 page
6SL3362-0AG00-0AA1	drive component	View 6SL3362-0AG00-0AA1 page
6SL3352-1AE37-5BA1	replacement power block	View 6SL3352-1AE37-5BA1 page
6SL3200-0SP01-0AA0	CIM PM-IF assembly	View 6SL3200-0SP01-0AA0 page
6SE7041-8HK85-1HA0	PER2 interface	View 6SE7041-8HK85-1HA0 page
6SE7041-8EK85-0HA0	PER3 interface	View 6SE7041-8EK85-0HA0 page

ENGINEERING BOUNDARY

Confirm 6ES7315-2EG10-0AB0, CPU hardware and firmware, S7-300 rack and power supply, Micro Memory Card, MPI/DP and PROFINET topology, connector assignment, 24 V wiring, grounding, STEP 7 hardware configuration, project version, diagnostics and controlled output-test results before com

Applications and Precautions

Common Applications

S7-300 process-control stations

Runs sequence, interlock and regulatory-control logic in a documented S7-300 station.

PROFINET machine coordination

Exchanges cyclic data with configured Ethernet-based automation devices.

PROFIBUS distributed-I/O systems

Coordinates DP devices through the configured MPI/DP interface.

Legacy CPU replacement projects

Restores a documented CPU 315-2 PN/DP station while preserving its validated project.

Product Precautions

- 1

Confirm the complete 6ES7315-2EG10-0AB0 marking, hardware release and rack position.
- 2

Place the machine and all controlled outputs in the approved maintenance state.
- 3

Archive the STEP 7 project, Micro Memory Card contents and diagnostic buffer.
- 4

Isolate the 24 V DC supply and record every front connector and network cable.
- 5

Use ESD controls and inspect the backplane and front connectors before installation.
- 6

Restore the exact MPI/DP, PROFINET, station-name and IP configuration.
- 7

Verify every configured distributed-I/O station and communication peer.
- 8

Complete controlled input, output, interlock and restart tests before release.

IMPORTANT NOTICE

Confirm 6ES7315-2EG10-0AB0, CPU hardware and firmware, S7-300 rack and power supply, Micro Memory Card, MPI/DP and PROFINET topology, connector assignment, 24 V wiring, grounding, STEP 7 hardware configuration, project version, diagnostics and controlled output-test results before com

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	6ES7315-2EG10-0AB0
Configuration	Verify every configured distributed-I/O station and communication peer.
Functional release	Complete controlled input, output, interlock and restart tests before release.

Engineer FAQ

Q1 What exact function does 6ES7315-2EG10-0AB0 perform as a SIMATIC S7-300 CPU 315-2 PN/DP?

It executes the S7 program and coordinates the documented MPI/DP and PROFINET interfaces.

Q3 Which connection checks are required for 6ES7315-2EG10-0AB0?

Verify the S7-300 backplane, 24 V supply, front connectors and both communication interfaces.

Q5 Which diagnostic evidence should be reviewed for 6ES7315-2EG10-0AB0?

Review the diagnostic buffer, DP station state, PROFINET device state and module diagnostics.

Q7 How should 6ES7315-2EG10-0AB0 be commissioned after installation?

Power up in the approved sequence, verify all configured peers, then prove inputs, outputs and interlocks.

Q2 Which host system must be confirmed before installing 6ES7315-2EG10-0AB0?

Confirm the documented Siemens SIMATIC S7-300 host and the complete 6ES7315-2EG10-0AB0 marking before work.

Q4 How should the installed configuration for 6ES7315-2EG10-0AB0 be preserved?

Restore the validated STEP 7 hardware configuration, station identity and network parameters.

Q6 What must be recorded before replacing 6ES7315-2EG10-0AB0?

Record the complete order number, hardware and firmware versions, MMC, rack slot, network addresses and diagnostic baseline.

Q8 Which model-specific limitation applies to 6ES7315-2EG10-0AB0?

The module requires a compatible Micro Memory Card and the successor CPU must not be treated as an identical drop-in without migration validation.

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