

INDUSTRIAL AUTOMATION PRODUCT

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

| IDENTITY      | VERIFIED VALUE                             |
|---------------|--------------------------------------------|
| Manufacturer  | Siemens                                    |
| System family | Siemens SIMATIC S7-300                     |
| Part number   | 6ES7315-2EG10-0AB0                         |
| Product role  | Executes the configured S7 control program |
| Lifecycle     | Installed product record                   |

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING 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

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6ES7315-2EG10-0AB0

# Technical Specifications

Technical values below are limited to the named Siemens product record and directly applicable manufacturer documentation.

| 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 |

## Verified Product Record

| DATA GROUP                 | VERIFIED VALUE                                                                                                                                                                                                                    |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Installed host / carrier   | Siemens SIMATIC S7-300                                                                                                                                                                                                            |
| Primary system role        | Executes the configured S7 control program                                                                                                                                                                                        |
| Connection boundary        | 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 |
| Controlled acceptance duty | S7-300 process-control stations                                                                                                                                                                                                   |

### 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

## Pre-Installation Checks

- 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.

## Documented Service Record

| RECORD ITEM        | REQUIRED ENTRY                   |
|--------------------|----------------------------------|
| As-found article   | 6ES7315-2EG10-0AB0               |
| Installed host     | Siemens SIMATIC S7-300           |
| Connection record  | Capture before removal           |
| Controlled release | Diagnostics and functional proof |

# System Role and Architecture

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

## Matched System Components

| NO. | DOCUMENTED COMPONENT / ROLE                                                                                                                                                                                                       |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | Siemens SIMATIC S7-300                                                                                                                                                                                                            |
| 2   | 128 KB                                                                                                                                                                                                                            |
| 3   | S7-300 process-control stations                                                                                                                                                                                                   |
| 4   | 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 |

## System Integration Record

| INTEGRATION ITEM       | DOCUMENTED ROLE                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host identity          | Siemens SIMATIC S7-300                                                                                                                                                                                                                |
| Interface role         | Executes the configured S7 control program                                                                                                                                                                                            |
| Field / power 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 evidence | Complete controlled input, output, interlock and restart tests before release.                                                                                                                                                        |

## Installation and Connection Checks

**1** Use ESD controls and inspect the backplane and front connectors before installation.

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

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

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

### 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

# Applications and Engineering Context

**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.

**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

## Model-Specific Acceptance Evidence

| CHECK              | ACCEPTANCE CONDITION                                                           |
|--------------------|--------------------------------------------------------------------------------|
| Identity           | 6ES7315-2EG10-0AB0 recorded                                                    |
| Host / carrier     | Siemens SIMATIC S7-300                                                         |
| Physical interface | Executes the configured S7 control program                                     |
| Configuration      | Verify every configured distributed-I/O station and communication peer.        |
| Functional proof   | 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

## Controlled Release Summary

| RELEASE ITEM     | MODEL-SPECIFIC CONDITION                                                       |
|------------------|--------------------------------------------------------------------------------|
| Article identity | 6ES7315-2EG10-0AB0                                                             |
| Approved role    | S7-300 process-control stations                                                |
| Final validation | Complete controlled input, output, interlock and restart tests before release. |

## Engineering 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.  |

## Related Products on Apter Power

| MODEL              | SYSTEM ROLE             | APTER POWER PAGE                             |
|--------------------|-------------------------|----------------------------------------------|
| 6ES7314-6BH04-0AB0 | S7-300 CPU              | <a href="#">View 6ES7314-6BH04-0AB0 page</a> |
| 6ES7223-1BL22-0XA0 | S7-200 I/O              | <a href="#">View 6ES7223-1BL22-0XA0 page</a> |
| 6AU1455-2AD00-0AA0 | SIMOTION controller     | <a href="#">View 6AU1455-2AD00-0AA0 page</a> |
| 6SL3120-2TE21-0AA4 | motor module            | <a href="#">View 6SL3120-2TE21-0AA4 page</a> |
| 6SL3320-1TE33-1AA3 | motor module            | <a href="#">View 6SL3320-1TE33-1AA3 page</a> |
| 6SL3362-0AG00-0AA1 | drive component         | <a href="#">View 6SL3362-0AG00-0AA1 page</a> |
| 6SL3352-1AE37-5BA1 | replacement power block | <a href="#">View 6SL3352-1AE37-5BA1 page</a> |
| 6SL3200-0SP01-0AA0 | CIM PM-IF assembly      | <a href="#">View 6SL3200-0SP01-0AA0 page</a> |

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