

INDUSTRIAL AUTOMATION PRODUCT

6GK7342-5DA02-0XE0

CP 342-5 PROFIBUS Communication Processor

Siemens 6GK7342-5DA02-0XE0 is the cp 342-5 profibus communication processor for SIMATIC S7-300 / SIMATIC NET. It provides PROFIBUS DP and FDL communication for an S7-300 station in the documented installation.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC S7-300 / SIMATIC NET
Part number	6GK7342-5DA02-0XE0
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Use 6GK7342-5DA02-0XE0 only in the documented SIMATIC S7-300 / SIMATIC NET position. Preserve the exact connectors, power, signal or network configuration and verify PROFIBUS DP and FDL communication for an S7-300 station during controlled commissioning.

System Role and Architecture

Siemens 6GK7342-5DA02-0XE0 is the cp 342-5 profibus communication processor for SIMATIC S7-300 / SIMATIC NET. It provides PROFIBUS DP and FDL communication for an S7-300 station in the documented installation.

FUNCTION 1
Product designation: CP 342-5

FUNCTION 2
Host system: SIMATIC S7-300

FUNCTION 3
Network: PROFIBUS

FUNCTION 4
Supported roles: DP master and DP slave

RELATED APTER POWER PAGES

1 Siemens 6GK7243-2AX01-0XA0

2 Siemens 6GK1543-1AA01

3 Siemens 6GK1162-3AA00

4 Siemens 6GK1503-3CD00

5 Siemens 6GK7542-1AX10-0XE0

6 Siemens 6GK5004-1BD00-1AB2

7 Siemens 6GK5206-2BD00-2AC2

8 Siemens 6GK5208-0BA00-2AB2

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SIMATIC S7-300 / SIMATIC NET
02	Matched SIMATIC S7-300 / SIMATIC NET host or field system
03	Documented power, signal, communication and protective interfaces
04	Approved engineering configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SIMATIC S7-300 / SIMATIC NET
Interface role	PROFIBUS DP and FDL communication for an S7-300 station
Field / power context	documented SIMATIC S7-300 / SIMATIC NET installation
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1 Confirm the complete 6GK7342-5DA02-0XE0 marking and the documented CP 342-5 PROFIBUS Communication Processor execution.

2 Place the machine, controller and affected process in the approved maintenance state.

3 Isolate all hazardous energy and prove the safe state before disconnecting hardware.

4 Record the installed position, every terminal or port, and the active engineering configuration.

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Product designation	CP 342-5	Maximum transmission rate	12 Mbit/s
Host system	SIMATIC S7-300	Firmware release documented	V4.0
Network	PROFIBUS	Engineering software	STEP 7 V5.1 SP2 or higher
Supported roles	DP master and DP slave	Configuration download	MPI or PROFIBUS
Additional service	FDL SEND/RECEIVE	Module replacement	Possible without PG when configuration is stored in the

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1 Siemens 6GK7243-2AX01-0XA0

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8 Siemens 6GK5208-0BA00-2AB2

ENGINEERING BOUNDARY

Confirm 6GK7342-5DA02-0XE0, its exact SIMATIC S7-300 / SIMATIC NET host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 6GK7342-5DA02-0XE0 marking and the documented CP 342-5 PROFIBUS Communication Processor
- 2

Place the machine, controller and affected process in the approved maintenance state.
- 3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.
- 4

Record the installed position, every terminal or port, and the active engineering configuration.

Applications and Engineering Context

SIMATIC S7-300 / SIMATIC NET installation

Uses 6GK7342-5DA02-0XE0 for PROFIBUS DP and FDL communication for an S7-300 station in the documented host architecture.

Controlled replacement

Restores the exact 6GK7342-5DA02-0XE0 identity, interfaces and configuration before energization.

Commissioning verification

Checks 6GK7342-5DA02-0XE0 diagnostics and the affected function under controlled conditions.

Lifecycle maintenance

Preserves the approved SIMATIC S7-300 / SIMATIC NET wiring, network and engineering record during service work.

TECHNICAL NOTE

Use 6GK7342-5DA02-0XE0 only in the documented SIMATIC S7-300 / SIMATIC NET position. Preserve the exact connectors, power, signal or network configuration and verify PROFIBUS DP and FDL communication for an S7-300 station during controlled commissioning.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6GK7342-5DA02-0XE0 recorded
Host / carrier	SIMATIC S7-300 / SIMATIC NET
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms PROFIBUS DP and FDL communication for an S7-300 station

IMPORTANT NOTICE

Confirm 6GK7342-5DA02-0XE0, its exact SIMATIC S7-300 / SIMATIC NET host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Siemens 6GK7243-2AX01-0XA0

View Siemens 6GK7243-2AX01-0XA0 page

2

Siemens 6GK1543-1AA01

View Siemens 6GK1543-1AA01 page

3

Siemens 6GK1162-3AA00

View Siemens 6GK1162-3AA00 page

4

Siemens 6GK1503-3CD00

View Siemens 6GK1503-3CD00 page

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Siemens 6GK7542-1AX10-0XE0

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Siemens 6GK5208-0BA00-2AB2

View Siemens 6GK5208-0BA00-2AB2 page

MANUFACTURER SOURCE RECORD

Siemens CP 342-5 equipment manual and version history | Official manufacturer evidence verified 28 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.