

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

PRODUCT SNAPSHOT

BRAND
Siemens

FAMILY
SIMATIC S7-300 / SIMATIC NET

PART
6GK7342-5DA02-0XE0

DOCUMENT STATUS
Controlled engineering copy

APTER POWER

WHATSAPP / PHONE

+86 180 3023 5313

WEBSITE

www.apterpower.com



PRODUCT OVERVIEW

Siemens 6GK7342-5DA02-0XE0 provides PROFIBUS DP and FDL communication for an S7-300 station in a documented SIMATIC S7-300 / SIMATIC NET installation.

 Product designation: CP 342-5

 Host system: SIMATIC S7-300

 Network: PROFIBUS

 Supported roles: DP master and DP slave

RELATED APTER POWER PAGES

 Siemens 6GK7243-2AX01-0XA0

 Siemens 6GK1543-1AA01

 Siemens 6GK1162-3AA00

 Siemens 6GK1503-3CD00

 Siemens 6GK7542-1AX10-0XE0

 Siemens 6GK5004-1BD00-1AB2

 Siemens 6GK5206-2BD00-2AC2

 Siemens 6GK5208-0BA00-2AB2

SYSTEM COMPONENTS

DOCUMENTED COMPONENT	ROLE IN SYSTEM
CP 342-5 PROFIBUS Communication Processor	SIMATIC S7-300 / SIMATIC NET
Documented power, signal and communication interfaces	Approved engineering configuration and acceptance record

ENGINEERING CONTEXT

The component remains matched to its documented cabinet position, power source, interfaces and approved engineering configuration. Commissioning restores that architecture and verifies the affected control or communication function under controlled conditions.

TECHNICAL DATA

PARAMETER	VALUE
Product designation	CP 342-5
Host system	SIMATIC S7-300
Network	PROFIBUS
Supported roles	DP master and DP slave
Additional service	FDL SEND/RECEIVE

PARAMETER	VALUE
Maximum transmission rate	12 Mbit/s
Firmware release documented	V4.0
Engineering software	STEP 7 V5.1 SP2 or higher
Configuration download	MPI or PROFIBUS
Module replacement	Possible without PG when configuration is stored in the

RELATED PRODUCT 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

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.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

SIMATIC S7-300 / SIMATIC NET installation

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

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

PRODUCT PRECAUTIONS

1

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

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.

5

Verify the exact electrical, interface and environmental limits in the manufacturer evidence.

6

Restore protective earth, shielding, wiring, communications and the approved project or

7

Energize under control and review all device, rack, network and process diagnostics.

8

Complete a controlled functional test of PROFIBUS DP and FDL communication for an S7-300 station before

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

ENGINEER FAQ

Q1 What communication-processor designation belongs to 6GK7342-5DA02-0XE0?

For 6GK7342-5DA02-0XE0, the official Siemens evidence records product designation as CP 342-5. Apply that value only within the documented SIMATIC S7-300 / SIMATIC NET configuration and

Q2 Which SIMATIC controller family hosts the CP 342-5?

For 6GK7342-5DA02-0XE0, the official Siemens evidence records host system as SIMATIC S7-300. Apply that value only within the documented SIMATIC S7-300 / SIMATIC NET configuration and

Q3 Which industrial network is connected through this processor?

For 6GK7342-5DA02-0XE0, the official Siemens evidence records network as PROFIBUS. Apply that value only within the documented SIMATIC S7-300 / SIMATIC NET configuration and confirm the

Q4 Can the CP operate as both PROFIBUS DP master and DP slave?

For 6GK7342-5DA02-0XE0, the official Siemens evidence records supported roles as DP master and DP slave. Apply that value only within the documented SIMATIC S7-300 / SIMATIC NET configuration

Q5 Which FDL service supplements the DP communication functions?

For 6GK7342-5DA02-0XE0, the official Siemens evidence records additional service as FDL SEND/RECEIVE. Apply that value only within the documented SIMATIC S7-300 / SIMATIC NET configuration and

Q6 What is the highest documented PROFIBUS transmission rate?

For 6GK7342-5DA02-0XE0, the official Siemens evidence records maximum transmission rate as 12 Mbit/s. Apply that value only within the documented SIMATIC S7-300 / SIMATIC NET configuration and

Q7 Which firmware release is covered by the cited equipment manual?

For 6GK7342-5DA02-0XE0, the official Siemens evidence records firmware release documented as V4.0. Apply that value only within the documented SIMATIC S7-300 / SIMATIC NET configuration and

Q8 What minimum STEP 7 release is required for engineering?

For 6GK7342-5DA02-0XE0, the official Siemens evidence records engineering software as STEP 7 V5.1 SP2 or higher. Apply that value only within the documented SIMATIC S7-300 / SIMATIC NET

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

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

+86 180 3023 5313 | sales13@apterpower.com | www.apterpower.com