

INDUSTRIAL AUTOMATION PRODUCT

6GK1543-1AA01

Communication Processor

Siemens 6GK1543-1AA01 is a SIMATIC NET CP 5431 communications processor for connecting supported SIMATIC S5 systems to PROFIBUS FMS/DP. Match the bus configuration, rack interface and project data before replacement.

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
Complete model	6GK1543-1AA01
Product role	Communication Processor
System family	SIMATIC NET CP 5431 FMS/DP

DOCUMENT SCOPE

Exact identity, manufacturer-supported technical data, installation checks, applications, precautions and controlled verification records.

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6GK1543-1AA01

Technical Specifications

PARAMETER	VERIFIED VALUE
Complete model	6GK1543-1AA01
Processor type	CP 5431 FMS/DP
Network	PROFIBUS FMS/DP
Supported controller families	SIMATIC S5-115U/H, S5-135U and S5-155U/H
Documented example station	Passive SIMATIC S5-135U/155U partner with CPU 928
Documented FDL service	SDA (Send Data with Acknowledge) using free layer 2 access
Example active partner	SIMATIC S7-300 with CP 342-5

Model-Specific Engineering Note

ENGINEERING BOUNDARY

Use only the complete Siemens 6GK1543-1AA01 identity and the current manufacturer documentation. Confirm installed hardware, wiring, firmware or parameter compatibility and the approved maintenance record before replacement or release.

Pre-Installation Checks

NO.	REQUIRED CHECK
1	Verify the complete Siemens 6GK1543-1AA01 marking before work.
2	Review the current Siemens source documentation and the installed-system record.
3	Record the slot, connector, terminal and companion-hardware arrangement before removal.
4	Place the controller, drive or machine in the approved maintenance state before handling.
5	Use ESD controls and protect keyed connectors, terminals and circuit-board components.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6GK1162-3AA00	View Siemens 6GK1162-3AA00
Siemens 6GK1415-2AA10	View Siemens 6GK1415-2AA10
Siemens 6GK1500-0FC10	View Siemens 6GK1500-0FC10
Siemens 6GK1503-3CB00	View Siemens 6GK1503-3CB00
Siemens 6GK1503-3CD00	View Siemens 6GK1503-3CD00

System Role and Architecture

Siemens 6GK1543-1AA01 is a SIMATIC NET CP 5431 communications processor for connecting supported SIMATIC S5 systems to PROFIBUS FMS/DP. Match the bus configuration, rack interface and project data before replacement.

FUNCTION 1
PROFIBUS FMS/DP

FUNCTION 2
SIMATIC S5 networking

FUNCTION 3
Communication offload

FUNCTION 4
Legacy CP replacement

Common Applications

APPLICATION	ENGINEERING CONTEXT
Distributed I/O	Connects approved PROFIBUS DP stations.
Controller networking	Provides documented SIMATIC S5 bus communication.
FMS messaging	Supports configured PROFIBUS FMS services.
Legacy maintenance	Preserves an installed CP 5431 network node.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6GK1561-2AA00	View Siemens 6GK1561-2AA00
Siemens 6GK1571-0BA00-0AA0	View Siemens 6GK1571-0BA00-0AA0
Siemens 6GK1571-1AA00	View Siemens 6GK1571-1AA00
Siemens 6GK5004-1BD00-1AB2	View Siemens 6GK5004-1BD00-1AB2

CONTROLLED ACCEPTANCE DUTY
Confirm identity, physical interface, companion hardware, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify the complete Siemens 6GK1543-1AA01 marking before work.
2	Review the current Siemens source documentation and the installed-system record.
3	Record the slot, connector, terminal and companion-hardware arrangement before removal.
4	Place the controller, drive or machine in the approved maintenance state before handling.
5	Use ESD controls and protect keyed connectors, terminals and circuit-board components.
6	Confirm the documented electrical and interface values for 6GK1543-1AA01 before energization.
7	Restore wiring, shielding, grounding and mechanical retention exactly as documented.
8	Run model-specific diagnostics and a controlled functional test before production release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is Siemens 6GK1543-1AA01?	Siemens 6GK1543-1AA01 is a SIMATIC NET CP 5431 communications processor for connecting supported SIMATIC S5 systems to PROFIBUS FMS/DP. Match the bus configuration, rack interface and project data before replacement.
Which product family includes 6GK1543-1AA01?	The official manufacturer record identifies it within the SIMATIC NET CP 5431 FMS/DP family.
Which exact identity must be retained?	Record the complete Siemens 6GK1543-1AA01 marking; do not shorten or replace the suffix.
Which key technical value is documented?	Processor type: CP 5431 FMS/DP.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6GK5206-2BD00-2AC2	View Siemens 6GK5206-2BD00-2AC2
Siemens 6GK5206-2BS00-2AC2	View Siemens 6GK5206-2BS00-2AC2
Siemens 6GK5208-0BA00-2AB2	View Siemens 6GK5208-0BA00-2AB2
Siemens 6GK5324-0GG00-1AR2	View Siemens 6GK5324-0GG00-1AR2
Siemens 6GK5602-0BA10-2AA3	View Siemens 6GK5602-0BA10-2AA3

Model-Specific FAQ - Part 2

QUESTION	ANSWER
What must be checked before removal?	Record the slot, connectors, terminals, companion hardware and configured function from the installed system.
Can a nearby model be substituted?	No. A different suffix or family member requires documented electrical, mechanical, firmware and interface approval.
What installation controls are required?	Use the current manufacturer procedure, approved maintenance state, ESD controls and the documented wiring and grounding arrangement.
What confirms successful commissioning?	Identity and connections match the record, diagnostics pass and the controlled functional test has no unexplained fault.

Related Products on Apter Power

MODEL	APTER POWER PAGE
Siemens 6GK5991-1AF00-8AA0	View Siemens 6GK5991-1AF00-8AA0
Siemens 6GK5992-2GA00-8AA0	View Siemens 6GK5992-2GA00-8AA0
Siemens 6GK7343-1EX30-0XE0	View Siemens 6GK7343-1EX30-0XE0
Siemens 6GK7443-1EX30-0XE0	View Siemens 6GK7443-1EX30-0XE0
Siemens 6GK7542-1AX10-0XE0	View Siemens 6GK7542-1AX10-0XE0
Siemens 6GK7542-5DX00-0XE0	View Siemens 6GK7542-5DX00-0XE0
Siemens 15499-146-8	View Siemens 15499-146-8
Siemens 16267-1-2	View Siemens 16267-1-2
Siemens 39ACM24BAN-16139-76-09	View Siemens 39ACM24BAN-16139-76-09
Siemens 39ACM24BEN-16139-215-1	View Siemens 39ACM24BEN-16139-215-1
Siemens 39EAMCBN-16154-93-3	View Siemens 39EAMCBN-16154-93-3

MANUFACTURER SOURCE RECORD

SIMATIC NET CP 5431 FMS/DP Product Data
Siemens product data for 6GK1543-1AA01 CP 5431 FMS/DP

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