APTER POWER FIELD WORKBOOK

6GK1561-2AA00

CP 5612 Communications Processor

Installation, application and verification guide

Use this controlled workbook to preserve the host slot, fieldbus identity and communication settings during installation or replacement.

PARAMETER	TECHNICAL VALUE
Complete model	6GK1561-2AA00
Product name	CP 5612 Communications Processor
Host interface	32-bit PCI
Fieldbus interface	PROFIBUS or MPI; RS-485

1	PLAN - verify identity and host compatibility
2	ISOLATE - remove host power and control ESD
3	CONNECT - seat PCI card and RS-485 connector
4	CONFIGURE - restore driver and network values
5	TEST - prove diagnostics and communication

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6GK1561-2AA00

01. Pre-installation Plan

1	Verify the complete article number and a compatible 32-bit PCI host slot.
2	Shut down the host, isolate mains power and apply ESD controls before handling.
3	Seat the PCI edge connector squarely and secure the bracket without board stress.
4	Use an approved 9-pin PROFIBUS/MPI connector and preserve shield continuity.

Host qualification

PARAMETER	TECHNICAL VALUE
Host bus	PCI 32-bit
PCI keying	3.3/5 V universal key
PCI clock	33/66 MHz
Industrial network	PROFIBUS; MPI
Backplane supply	3.3 V DC; 12 V DC
3.3 V tolerance	+/-9%
12 V tolerance	+/-8%
Current at 3.3 V	0.15 A maximum
Current at 12 V	0.25 A maximum
Power loss	3.5 W

Matched hardware

PARAMETER	TECHNICAL VALUE
Host	Compatible PG/PC with one 32-bit PCI slot
Connector	Approved 9-pin PROFIBUS/MPI connector
Cable	Shielded RS-485 bus cable
Software	Configured Siemens communication or engineering environment

02. Connection Identity Record

PARAMETER	TECHNICAL VALUE
PCI slot	Record the installed host slot and universal-key fit
Network type	PROFIBUS or MPI
Network connector	9-pin Sub-D socket; RS-485
Node address	Restore the approved project value
Transfer rate	Select the configured rate within 9.6 kbit/s to 12 Mbit/s
Shield treatment	Preserve cabinet and connector shield continuity
Termination	Enable only at physical segment ends
Driver binding	Bind the application to the installed CP 5612 interface

Environmental acceptance

PARAMETER	TECHNICAL VALUE
Operating temperature	5 to 55 degC
Storage temperature	-20 to +60 degC
Transport temperature	-20 to +60 degC
Relative humidity	95% at 25 degC; non-condensing
Ingress protection	IP00
Card format	PCI
Same-design cards per PC	1
Operating-system support	32-bit; 64-bit

03. Configuration and Commissioning

1	Confirm the operating system recognizes the CP 5612 without resource errors.
2	Restore the approved driver and application assignment.
3	Set PROFIBUS or MPI mode, node address and transmission rate.
4	Inspect the Sub-D connector, cable shield and termination switches.
5	Connect under controlled conditions and review host and bus diagnostics.
6	Prove engineering communication before enabling routine use.

Diagnostic decision matrix

PARAMETER	TECHNICAL VALUE
Card not detected	Check host power-off installation, PCI seating, slot compatibility and driver state
No bus communication	Check mode, node address, transfer rate, connector and cable continuity
Intermittent errors	Check shield bonding, duplicate address, termination and segment condition
Application cannot bind	Check CP 5612 interface assignment and supported software environment

Controlled proof

Capture diagnostics before changes, make one controlled correction at a time, then repeat the same communication test and retain the result.

04. Return-to-service Record

1	Enable RS-485 termination only at the physical ends of the bus segment.
2	Restore the recorded interface assignment, node address and transfer rate.
3	Review host diagnostics and bus error counters before replacing other devices.
4	Prove engineering access and cyclic communication before return to service.

Acceptance checklist

PARAMETER	TECHNICAL VALUE
Identity	Article, host slot and interface assignment match the record
Physical connection	PCI card and Sub-D connector are secure
Configuration	Mode, node address and bus rate match the project
Diagnostics	Host and network diagnostics are normal
Functional test	Engineering and cyclic communication pass

Related Siemens products on Apter Power

MODEL	SERIES ROLE	APTER POWER PAGE
6ES7414-3EM07-0AB0	SIMATIC S7-400 CPU 414-3 PN/DP	Open product page
6EP1434-2BA20	SITOP PSU300S stabilized power supply	Open product page

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