

COMPLETE PRODUCT INFORMATION

6GK1561-2AA00

CP 5612 Communications Processor

A complete engineering view of the product identity, technical data, system role, installation checks, applications and support information.

PARAMETER	TECHNICAL VALUE	APTER POWER SALES TEAM WHATSAPP / PHONE +86 180 3023 5313 EMAIL sales13@apterpower.com WEBSITE www.apterpower.com  6GK1561-2AA00	
Brand	Siemens		
Family	SIMATIC NET CP 5612		
Article	6GK1561-2AA00		
Origin / HS	USA / 8537101190		

PARAMETER	TECHNICAL VALUE
System role	PG/PC connection to PROFIBUS or MPI
Host interface	PCI 32-bit, 3.3/5 V universal key
Network interface	RS-485 on 9-pin Sub-D socket
Bus-rate range	9.6 kbit/s to 12 Mbit/s

1. Technical Data Dashboard

PARAMETER	TECHNICAL VALUE	PARAMETER	TECHNICAL VALUE
Product family	CP 5612	12 V tolerance	+/-8%
Product type	Communications processor	Current at 3.3 V	0.15 A maximum
Host bus	PCI 32-bit	Current at 12 V	0.25 A maximum
PCI keying	3.3/5 V universal key	Power loss	3.5 W
PCI clock	33/66 MHz	Operating temperature	5 to 55 degC
Industrial network	PROFIBUS; MPI	Storage temperature	-20 to +60 degC
Transfer rate	9.6 kbit/s to 12 Mbit/s	Transport temperature	-20 to +60 degC
Network interfaces	1	Relative humidity	95% at 25 degC; non-condensing
Physical interface	RS-485	Ingress protection	IP00
Connector	9-pin Sub-D socket	Card format	PCI
Backplane supply	3.3 V DC; 12 V DC	Same-design cards per PC	1
3.3 V tolerance	+/-9%	Operating-system support	32-bit; 64-bit

1	PCI host and power compatibility	1	Temperature and humidity acceptance
2	PROFIBUS or MPI project identity	2	Driver and application binding
3	RS-485 connector and shield continuity	3	Controlled diagnostic proof

2. Function, Components and Applications

1	Connects a compatible programming device or industrial PC to PROFIBUS or MPI.	PARAMETER	TECHNICAL VALUE
		Host	PG/PC with one compatible PCI slot
		Network	PROFIBUS or MPI
		Connector	Approved 9-pin RS-485 connector
2	Handles engineering and cyclic communication through one RS-485 network port.	Software	Configured SIMATIC communication environment
3	Fits a 32-bit PCI slot with 3.3/5 V universal keying and 33/66 MHz operation.		
4	Supports configured bus rates from 9.6 kbit/s through 12 Mbit/s.		

PARAMETER	TECHNICAL VALUE
PROFIBUS engineering	Configuration and diagnostics for installed PROFIBUS devices
MPI commissioning	PG/PC access to compatible SIMATIC automation equipment
Industrial PC interface	A dedicated PCI-based RS-485 communication path
Plant maintenance	Controlled service access with preserved bus parameters

Signal path

SIMATIC engineering application -> CP 5612 PCI interface -> RS-485 transceiver -> 9-pin Sub-D connector -> terminated PROFIBUS or MPI segment.

Application control points

1	Use one approved host slot and retain its assignment.	1	Keep the node and transmission rate aligned with the project.
2	Select only the intended PROFIBUS or MPI network mode.	2	Verify the physical bus before changing software values.

3. Installation, Diagnostics and Precautions

1	Verify the complete article number and a compatible 32-bit PCI host slot.	1	Enable RS-485 termination only at the physical ends of the bus segment.
2	Shut down the host, isolate mains power and apply ESD controls before handling.	2	Restore the recorded interface assignment, node address and transfer rate.
3	Seat the PCI edge connector squarely and secure the bracket without board stress.	3	Review host diagnostics and bus error counters before replacing other devices.
4	Use an approved 9-pin PROFIBUS/MPI connector and preserve shield continuity.	4	Prove engineering access and cyclic communication before return to service.

Commissioning checkpoints

PARAMETER	TECHNICAL VALUE
Host enumeration	CP 5612 recognized without PCI or driver errors
Bus identity	Correct mode, address and transmission rate
Physical layer	Connector, shield, cable and termination verified
Functional proof	Engineering and cyclic traffic tested under control

Technical note

Install only with host power isolated and ESD controls active. Restore the recorded interface assignment, bus address, transfer rate and termination state before controlled communication testing.

4. Engineer FAQ and Related Products

PARAMETER	TECHNICAL VALUE	PARAMETER	TECHNICAL VALUE
Which host slot is required?	A compatible 32-bit PCI slot with 3.3/5 V universal keying.	What should be recorded before replacement?	PCI slot, driver assignment, node address, rate, shield and termination state.
Which networks are supported?	One RS-485 interface can be configured for PROFIBUS or MPI.	How is an ESD-safe replacement performed?	Isolate the host, use approved ESD controls and handle the card by its edges.
What bus-rate range is available?	The specified range is 9.6 kbit/s to 12 Mbit/s.	What should be checked after installation?	PCI recognition, driver binding, bus settings, connector, shielding and diagnostics.
Which field connector is used?	A 9-pin Sub-D socket is provided for the RS-485 network.	How many same-design cards are listed per PC?	The Siemens technical data lists one CP 5612 of the same design per PC.

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

Manufacturer source record

Siemens CP 5612 technical data for article 6GK1561-2AA00

Source identifier: 6GK1561-2AA00

Document use

Use the technical dashboard for product qualification, the installation controls for field work, and the FAQ for model-specific verification.

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