

6DD1662-0AB0

Communication Carrier Module

COMPLETE PRODUCT INFORMATION

It carries up to three SIMADYN D communication modules and exchanges their serial-protocol data with CPU modules through dedicated dual-port RAM.

- Accepts three communication modules
- Provides sixteen kilobytes per installed module
- Supports SS4, SS5 and SS52 hardware
- Connects communication data to the L bus

VERIFIED IDENTITY

Order number	6DD1662-0AB0	Module designation	CS7 communications support module
Supported communication modules	SS4, SS5 and SS52	Serial protocols	DUST, USS and PROFIBUS with the installed communications module
Communication-module slots	3; X01 to X03	Dual-port RAM	16 KB per communications module

Official source: Siemens SIMADYN D Hardware Manual
Publication: Edition 04.2011 / 12.2004

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TECHNICAL DATA

Order number	6DD1662-0AB0	Module designation	CS7 communications support module
Supported communication modules	SS4, SS5 and SS52	Serial protocols	DUST, USS and PROFIBUS with the installed communications module
Communication-module slots	3; X01 to X03	Dual-port RAM	16 KB per communications module
Diagnostic indication	Two LEDs per plug-in slot	Backplane interface	L bus
Reset test sockets	X10/X11, X20/X21 and X30/X31	Reset-socket restriction	For testing only; not intended for operation
CPU data exchange	Via CS7 dual-port RAM		

APPLICATIONS & SYSTEM COMPONENTS

SIMADYN serial networking	Hosts serial communication hardware inside the SIMADYN rack.
PROFIBUS communication hosting	Supports an installed PROFIBUS interface through its selected module.
Multi-interface controller integration	Provides three independent communication-module positions.
CS7 carrier replacement	Restores the exact CS7 data-exchange boundary.

- SIMADYN D L-bus rack
- approved SS4, SS5 or SS52 communication modules
- configured CPU communication connections
- documented serial network and protocol parameters

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PRECAUTIONS & ENGINEER FAQ

PRODUCT PRECAUTIONS

- Verify the complete 6DD1662-0AB0 marking and the assigned SIMADYN D digital control system position before work.
- Isolate all applicable power and serial-protocol data between communication modules and simadyn cpus field energy before disconnection.
- Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- Restore power in a controlled sequence and review module, rack and host diagnostics.
- Place the connected simadyn serial networking process in the approved maintenance state.
- Record every connector, conductor, address, jumper and project identity before removal.
- Confirm the installed SIMADYN D L-bus rack and approved SS4, SS5 or SS52 communication modules against the approved system record.
- Prove the intended profibus communication hosting function and retain the final acceptance result.

ENGINEER FAQ — PART 1

1	Which plug-in modules are supported by Siemens 6DD1662-0AB0?	The CS7 carrier is documented for SS4, SS5 and SS52 communication modules.
2	How many communication positions are available on 6DD1662-0AB0?	It provides three plug-in receptacles identified as X01, X02 and X03.
3	How much dual-port RAM is assigned by 6DD1662-0AB0?	Each installed communications module receives 16 KB of dual-port RAM for data exchange with CPU modules.

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4	Which protocols can be implemented through 6DD1662-0AB0?	With the appropriate communication module and project, Siemens documents DUST, USS and PROFIBUS serial protocols.
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ENGINEER FAQ & RELATED PRODUCTS

1	What do the LEDs on 6DD1662-0AB0 indicate?	Each plug-in position has two diagnostic LEDs; their exact meaning depends on the installed SS4, SS5 or SS52 module.
2	Which backplane connection is used by 6DD1662-0AB0?	The CS7 connects to the SIMADYN D L bus for timing, interrupts and CPU data exchange functions.
3	May the X10/X11 reset sockets on 6DD1662-0AB0 be used in normal operation?	No. Siemens marks the reset test-socket pairs as test-only facilities, not operating controls.
4	What should be proven after replacing 6DD1662-0AB0?	Verify each communication module, LED state, CPU data exchange and the complete configured serial protocol without bus or communication faults.

RELATED PRODUCTS ON APTER POWER

01	Emerson KC4011X1 BZ1	Related industrial automation product
02	Emerson KC4011X1 BW1	Related industrial automation product
03	Emerson KJ2201X1 BA1	Related industrial automation product
04	Emerson 3900 02 10	Related industrial automation product
05	Emerson 396P 02 12 55	Related industrial automation product
06	Emerson 396P 08 10 55	Related industrial automation product
07	Siemens 6SE7041 8HK85 1HA0	Related industrial automation product
08	Siemens 6SL3200 0SP01 0AA0	Related industrial automation product

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