

6DD1662-0AB0

Communication Carrier Module

PRODUCT AND SYSTEM TECHNICAL REFERENCE

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
- Supports SS4, SS5 and SS52 hardware
- Provides sixteen kilobytes per installed module
- 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

APPLICATION SNAPSHOT

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.

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TECHNICAL SPECIFICATIONS

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

MATCHED COMPONENTS

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

TECHNICAL ACCEPTANCE CRITERIA

Exact identity	Complete 6DD1662-0AB0 marking matches the controlled record
System match	Installed position belongs to the SIMADYN D digital control system
Companion hardware	All required rack, connector, field and project items are reconciled
Electrical limits	Supply, ranges and signal values remain within the named Siemens data
Diagnostics	Module, rack, network and host indications are understood and accepted
Controlled response	The serial-protocol data between communication modules and simadyn cpus function is proven and recorded

Record every X01-X03 module, LED state, protocol parameter and CPU assignment; the reset test sockets are for testing only and must not be used as operating controls.

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SYSTEM INTEGRATION & FAQ

DOCUMENTED APPLICATIONS

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.

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.
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	Siemens A5E00297630	Related industrial automation product
02	Siemens A5E36717793	Related industrial automation product
03	Siemens A5E36717811	Related industrial automation product
04	Siemens 6ED1052 1HB08 0BA1	Related industrial automation product
05	Bently Nevada 130768 01	Related industrial automation product
06	Bently Nevada 4300111	Related industrial automation product
07	Bently Nevada 125565 01	Related industrial automation product
08	Bently Nevada 125388 01	Related industrial automation product

Manufacturer source	Siemens SIMADYN D Hardware Manual
Publication	Edition 04.2011 / 12.2004
Technical boundary	Values are limited to this exact-model source record
Acceptance evidence	Retain the as-left identity, diagnostics and controlled test result

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