

6DD1662-0AB0

Communication Carrier Module

INSTALLATION AND COMMISSIONING GUIDE

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.

01 PRE-INSTALLATION PLAN

Step 1	Verify the complete 6DD1662-0AB0 marking and the assigned SIMADYN D digital control system position before work.
Step 2	Place the connected simadyn serial networking process in the approved maintenance state.
Step 3	Isolate all applicable power and serial-protocol data between communication modules and simadyn cpus field energy before disconnection.
Step 4	Record every connector, conductor, address, jumper and project identity before removal.
Step 5	Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
Step 6	Confirm the installed SIMADYN D L-bus rack and approved SS4, SS5 or SS52 communication modules against the approved system record.
Step 7	Restore power in a controlled sequence and review module, rack and host diagnostics.
Step 8	Prove the intended profibus communication hosting function and retain the final acceptance result.

MATCHED HARDWARE

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

02 WIRING & INTERFACE CHECKS

Exact model	6DD1662-0AB0
Installed system	SIMADYN D digital control system
Controlled signal	serial-protocol data between communication modules and SIMADYN CPUs
Connector record	Capture terminal, plug, jumper and cable identities before removal
Shield and reference	Restore only the documented as-found termination arrangement
Supply isolation	Verify all module, field and stored-energy sources are safe
Configuration record	Save addresses, ranges, parameters, software and project revision
Pre-energization gate	Complete continuity, polarity, supply and protective-device checks

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03 COMMISSIONING & RETURN TO SERVICE

1 — Identity	Reconfirm 6DD1662-0AB0 and the assigned system position
2 — Mechanical	Verify seating, retaining hardware, airflow and connector protection
3 — Electrical	Verify supply, polarity, references, shields and field protection
4 — Configuration	Restore only the approved addresses, parameters and project
5 — Controlled power	Energize with the connected process in the maintenance state
6 — Diagnostics	Review module, rack, network and host diagnostic indications
7 — Function	Exercise the documented simadyn serial networking function
8 — Acceptance	Record the final response and release authorization

APPLICATION-SPECIFIC TESTS

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.

RETURN-TO-SERVICE RECORD

Identification accepted	Complete model and installed marking verified
Connections accepted	All conductors, connectors, shields and jumpers reconciled
Configuration accepted	Addressing, parameters and project revision confirmed
Diagnostics accepted	No unexplained module, rack, network or host faults
Function accepted	Documented controlled response proved
Record retained	As-left evidence and approval stored with the maintenance record



MODEL-SPECIFIC FAQ & RELATED PRODUCTS

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.
5	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.
6	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.
7	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.
8	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	Yokogawa CP451 10 S2	Related industrial automation product
02	Bently Nevada 330104 03 06 10 02 00	Related industrial automation product
03	Bently Nevada 330104 00 15 10 02 00	Related industrial automation product
04	Bently Nevada 330104 00 12 10 02 00	Related industrial automation product
05	Bently Nevada 330910 00 05 50 02 00	Related industrial automation product
06	Siemens 6ES7223 1BL22 0XA0	Related industrial automation product
07	GE IC200MDL740	Related industrial automation product
08	Emerson KJ4006X1 BD1	Related industrial automation product

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