

6DD1611-0AG0

Coupling Memory Module

INSTALLATION AND COMMISSIONING GUIDE

It supplies dual-bus shared RAM so multiple SIMADYN D CPU modules can exchange configured process and communication data.

- Provides two megabytes per bus
- Connects to the L bus and C bus
- Includes integrated bus termination
- Supports battery-backed coupling data

VERIFIED IDENTITY

Order number	6DD1611-0AG0
Module designation	MM4 coupling memory module
Purpose	Data exchange between multiple CPU modules
Bus connections	L bus and C bus
Memory capacity	2 x 2 MB
Memory allocation	2 MB per bus

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

APPLICATION SNAPSHOT

Multi-CPU data exchange	Exchanges configured data between CPU modules.
SIMADYN coupling-memory service	Maintains the shared-memory path on both backplane buses.
Shared communications access	Supports multiple CPUs using an assigned CS7 serial interface.
MM4 module replacement	Restores the exact high-capacity coupling-memory position.



01 PRE-INSTALLATION PLAN

Step 1	Verify the complete 6DD1611-0AG0 marking and the assigned SIMADYN D digital control system position before work.
Step 2	Place the connected multi-cpu data exchange process in the approved maintenance state.
Step 3	Isolate all applicable power and shared I-bus and c-bus coupling-memory data 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 module rack and first and second CPU 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 simadyn coupling-memory service function and retain the final acceptance result.

MATCHED HARDWARE

- SIMADYN D module rack
- rack 3.4 V backup battery
- first and second CPU modules
- configured coupling-memory connections

02 WIRING & INTERFACE CHECKS

Exact model	6DD1611-0AG0
Installed system	SIMADYN D digital control system
Controlled signal	shared L-bus and C-bus coupling-memory data
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



03 COMMISSIONING & RETURN TO SERVICE

1 — Identity	Reconfirm 6DD1611-0AG0 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 multi-cpu data exchange function
8 — Acceptance	Record the final response and release authorization

APPLICATION-SPECIFIC TESTS

Multi-CPU data exchange	Exchanges configured data between CPU modules.
SIMADYN coupling-memory service	Maintains the shared-memory path on both backplane buses.
Shared communications access	Supports multiple CPUs using an assigned CS7 serial interface.
MM4 module replacement	Restores the exact high-capacity coupling-memory position.

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	Why is Siemens 6DD1611-0AG0 installed between CPU modules?	The MM4 coupling memory must occupy a slot between the first and second CPUs so the documented multi-CPU data path is maintained.
2	How much memory does 6DD1611-0AG0 provide?	It provides 2 x 2 MB of RAM, with 2 MB allocated to each of the L bus and C bus.
3	Which backplane buses connect to 6DD1611-0AG0?	The MM4 connects to both the SIMADYN D L bus and C bus.
4	What battery dependency must be checked for 6DD1611-0AG0?	Power-loss data backup uses the rack 3.4 V backup battery, so battery condition and replacement history must be verified.
5	What termination function is integrated in 6DD1611-0AG0?	The module includes termination for both the C bus and L bus; preserve the intended rack topology.
6	When is 6DD1611-0AG0 required in a SIMADYN D rack?	It is required when multiple CPU modules exchange configured data through coupling memory or share an assigned CS7 serial interface.
7	What does the system-fault relay on 6DD1611-0AG0 support?	It provides the documented fault-signaling function for the coupling-memory arrangement and must be included in diagnostic checks.
8	How should 6DD1611-0AG0 be accepted after replacement?	Verify battery backup, both bus connections, CPU communication and configured shared-data transfers without system-fault indications.

RELATED PRODUCTS ON APTER POWER

01	Emerson PR6423 002 030	Related industrial automation product
02	Emerson CON021	Related industrial automation product
03	Allen-Bradley 22B D6P0N104	Related industrial automation product
04	Bently Nevada 3500 92 04 01 01	Related industrial automation product
05	Bently Nevada 3500 33 SIL2 03 01	Related industrial automation product
06	Bently Nevada 3500 22M 01 01 01	Related industrial automation product
07	Bently Nevada 3500 15 05 05 01	Related industrial automation product
08	Bently Nevada 3500 05 01 02 01 00 01	Related industrial automation product

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