

6DD1682-0CC0

SIMADYN Subrack

COMPLETE PRODUCT INFORMATION

It is a twelve-slot, fan-cooled 24 VDC SIMADYN D rack with SP22 power supply and integrated L-bus and C-bus backplanes.

- Provides twelve SIMADYN D slots
- Includes forced-air cooling
- Uses a 24 VDC SP22 power supply
- Distributes power and data on L and C buses

VERIFIED IDENTITY

Order number	6DD1682-0CC0	Subrack designation	SR12.1
Supply voltage	24 V DC	Cooling fan	Provided
Power-supply type	SP22	Module slots	12

Official source: Siemens SIMADYN D Hardware Manual
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TECHNICAL DATA

Order number	6DD1682-0CC0	Subrack designation	SR12.1
Supply voltage	24 V DC	Cooling fan	Provided
Power-supply type	SP22	Module slots	12
Backplane buses	L bus and C bus	Power supply	Integrated
Line filter	VDE 0871 limit value class A	Normal-status indication	Green LED
Fault indication	Red LED	Backup battery	Internal compartment and external X3 connection
Supply connection	Screw/plug-in terminal X1	Cold restart	Reset button or documented X4 jumper method
Voltage test points	5 V and +/-15 V outputs; short-circuit-proof		

APPLICATIONS & SYSTEM COMPONENTS

Twelve-slot control assembly	Houses a complete twelve-slot digital control assembly.
SIMADYN multi-module integration	Links installed modules through the two backplane buses.
Fan-cooled controller rack	Maintains cooled operation of the documented module set.
SR12.1 subrack replacement	Restores the exact 24 VDC rack and power architecture.

- 24 VDC cabinet supply and protection
- installed SIMADYN D modules
- SP22 power supply and cooling fan
- L-bus, C-bus and backup-battery arrangement

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PRECAUTIONS & ENGINEER FAQ

PRODUCT PRECAUTIONS

- Verify the complete 6DD1682-0CC0 marking and the assigned SIMADYN D digital control system position before work.
- Isolate all applicable power and rack power and I-bus/c-bus data for twelve simadyn d slots 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 twelve-slot control assembly process in the approved maintenance state.
- Record every connector, conductor, address, jumper and project identity before removal.
- Confirm the installed 24 VDC cabinet supply and protection and SP22 power supply and cooling fan against the approved system record.
- Prove the intended simadyn multi-module integration function and retain the final acceptance result.

ENGINEER FAQ — PART 1

1	What rack configuration identifies Siemens 6DD1682-0CC0?	It is the SR12.1 SIMADYN D subrack with twelve module slots.
2	Which supply and power module are used by 6DD1682-0CC0?	The exact subrack uses a 24 VDC input and the SP22 power-supply type.
3	Does 6DD1682-0CC0 include a cooling fan?	Yes. Siemens identifies SR12.1 as the fan-equipped 24 VDC twelve-slot version.
4	Which backplane buses are provided by 6DD1682-0CC0?	The integrated rack distributes module power and data through both the L bus and C bus.

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ENGINEER FAQ & RELATED PRODUCTS

1	What do the front LEDs mean on 6DD1682-0CC0?	The green LED indicates error-free operation and the red LED indicates a fault condition.
2	How is backup power arranged on 6DD1682-0CC0?	The rack has an internal battery compartment and an optional external backup-battery connection at X3.
3	What reset method is documented for 6DD1682-0CC0?	A cold restart can be initiated by the reset button or the documented X4 jumper method; follow the Siemens procedure exactly.
4	What must be verified before releasing 6DD1682-0CC0 to service?	Confirm the twelve-slot map, fan, SP22 voltages, battery, L/C bus diagnostics and every installed module before controlled startup.

RELATED PRODUCTS ON APTER POWER

01	Bently Nevada 330909 00 60 10 01 05	Related industrial automation product
02	Bently Nevada 330103 00 06 50 02 00	Related industrial automation product
03	Bently Nevada 330101 37 57 10 02 05	Related industrial automation product
04	Bently Nevada 24765 01 00	Related industrial automation product
05	Bently Nevada 147364 01	Related industrial automation product
06	Bently Nevada 149844 01	Related industrial automation product
07	Bently Nevada TK 3E 177313 02 01	Related industrial automation product
08	Acs Motion Control DDM3U 1 320V 30A SR	Related industrial automation product

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