

INDUSTRIAL AUTOMATION PRODUCT

6DD1607-0AA2

SIMATIC S7-400 FM458-1 DP Application Module

Siemens 6DD1607-0AA2 is an FM458-1 DP application module for SIMATIC S7-400 arithmetic, closed-loop and open-loop control tasks. It provides PROFIBUS DP, eight digital inputs, backed SRAM and expansion-module support.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Siemens
System family	SIMATIC FM458-1 DP / D7-SYS
Part number	6DD1607-0AA2
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 6DD1607-0AA2 only in the documented SIMATIC FM458-1 DP / D7-SYS position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and high-performance arithmetic and configurable closed-loop or open-loop control with PROFIBUS DP in an S7-400 station before service release.

System Role and Architecture

Siemens 6DD1607-0AA2 is an FM458-1 DP application module for SIMATIC S7-400 arithmetic, closed-loop and open-loop control tasks. It provides PROFIBUS DP, eight digital inputs, backed SRAM and expansion-module support.



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MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	SIMATIC FM458-1 DP / D7-SYS
02	Matched SIMATIC FM458-1 DP / D7-SYS host or field system
03	Documented power, signal, communication and protective interfaces
04	Approved engineering configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	SIMATIC FM458-1 DP / D7-SYS
Interface role	high-performance arithmetic and configurable closed-loop or open-loop control with PROFIBUS DP in
Field / power context	documented SIMATIC FM458-1 DP / D7-SYS installation
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1 Confirm the complete 6DD1607-0AA2 marking and the documented SIMATIC S7-400 FM458-1 DP Application Module execution.	2 Place the machine, controller and affected process in the approved maintenance state.
3 Isolate all hazardous energy and prove the safe state before disconnecting hardware.	4 Record the installed position, every terminal or port, and the active engineering configuration.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product designation	FM458-1 DP application module	Memory backup	SRAM backup provided
Host system	SIMATIC S7-400	Backup battery current	15 microampere maximum
Primary tasks	Arithmetic, closed-loop and open-loop control	Required rack slots	1
PROFIBUS DP	Provided	Hardware clock	Provided, 500 ms resolution
Distributed-I/O and drive connection	Supported	Typical current consumption	1.5 A
Digital inputs	8 on connector X2	Maximum current consumption	3 A
Rated digital-input voltage	24 V DC	Expansion design	Supports I/O and communication expansion

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ENGINEERING BOUNDARY

Confirm 6DD1607-0AA2, its exact SIMATIC FM458-1 DP / D7-SYS host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 6DD1607-0AA2 marking and the documented SIMATIC S7-400 FM458-1 DP Application Module execution.
- 2

Place the machine, controller and affected process in the approved maintenance state.
- 3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.
- 4

Record the installed position, every terminal or port, and the active engineering configuration.

Applications and Engineering Context

High-performance control algorithms

Executes configured arithmetic and closed-loop control tasks.

Drive and I/O coordination

Uses PROFIBUS DP to exchange data with documented devices.

D7-SYS application module

Runs the approved application configuration and function-block structure.

FM458 replacement commissioning

Preserves SRAM, battery, expansion modules and controlled functional proof.

TECHNICAL NOTE

Install 6DD1607-0AA2 only in the documented SIMATIC FM458-1 DP / D7-SYS position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and high-performance arithmetic and configurable closed-loop or open-loop control with PROFIBUS DP in an S7-400 station before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	6DD1607-0AA2 recorded
Host / carrier	SIMATIC FM458-1 DP / D7-SYS
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms high-performance arithmetic and configurable closed-loop or open-loop control with PROFIBUS DP in an S7-400 station

IMPORTANT NOTICE

Confirm 6DD1607-0AA2, its exact SIMATIC FM458-1 DP / D7-SYS host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

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2

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3

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View Bently Nevada 330980-70-05 page

4

Bently Nevada 330930-060-03-05

View Bently Nevada 330930-060-03-05 page

5

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View Bently Nevada 330180-X1-00-MOD-145004-09 page

6

Bently Nevada 330330-080-01-00

View Bently Nevada 330330-080-01-00 page

7

Bently Nevada 330330-070-00-00

View Bently Nevada 330330-070-00-00 page

8

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View Bently Nevada 330854-080-05 page

9

Bently Nevada 330851-02-000-080-10-00-00

View Bently Nevada 330851-02-000-080-10-00-00 page

MANUFACTURER SOURCE RECORD

Siemens ST 400 catalog exact-article technical specifications for 6DD1607-0AA2 | Official manufacturer evidence verified 28 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.