Siemens

6DD1607-0EA1

EXM 448-1 Communication Expansion Module

Siemens 6DD1607-0EA1 is the EXM 448-1 communication expansion module for FM 458 hardware. It combines a PROFIBUS DP interface with an integrated SLB interface for SIMOLINK.

System position

Exact identity	System family	Functional role	Release basis
6DD1607-0EA1	FM 458 / SIMADYN D	Communication Module	Recorded test and diagnostics

Keep the hardware and configuration identities together

The EXM 448-1 expands an FM 458 application module with two documented communication paths while retaining the configured PROFIBUS and SIMOLINK relationships.

IDENTITY / RESOURCE	DOCUMENTED VALUE
Exact model	6DD1607-0EA1
Module designation	EXM 448-1
Hardware type	Communication expansion module
Host platform	FM 458
PROFIBUS function	PROFIBUS DP communication
SIMOLINK function	Integrated SLB interface

Technical evidence record: Siemens DA 99 FM 458 catalog, order data for EXM 448-1

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Interfaces and integration

Define the installed role

The EXM 448-1 expands an FM 458 application module with two documented communication paths while retaining the configured PROFIBUS and SIMOLINK

Exact model	6DD1607-0EA1
Module designation	EXM 448-1
Hardware type	Communication expansion module

Map the host relationship

The complete 6DD1607-0EA1 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	FM 458 / SIMADYN D
Primary role	PROFIBUS DP and SIMOLINK communication
Acceptance	Diagnostics and functional response

Interface control matrix

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Electrical	Power, field wiring and protective earth
Communication	Address, network and companion configuration
Configuration	Switches, parameters, project and revision
Release	Controlled test with retained result

Configuration continuity

Retain the recorded FM 458 / SIMADYN D position, connected interfaces and configuration baseline.

Acceptance evidence

Release 6DD1607-0EA1 only after diagnostics and a controlled functional result are recorded.

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Technical resource bands

Only values tied to the complete product identity are listed. Installation-specific settings remain governed by the controlled site record.

PARAMETER	VALUE
Exact model	6DD1607-0EA1
Module designation	EXM 448-1
Hardware type	Communication expansion module
Host platform	FM 458
PROFIBUS function	PROFIBUS DP communication

PARAMETER	VALUE
SIMOLINK function	Integrated SLB interface
Engineering environment	D7-SYS with STEP 7 / CFC
Replacement basis	Exact order number and configured networks
Acceptance	Bus configuration, diagnostics and data

Identity decision

Accept only the complete 6DD1607-0EA1 marking and the recorded hardware execution.

Host decision

Confirm the receiving FM 458 / SIMADYN D position and every companion component.

Interface decision

Compare mechanical fit, power, field wiring, communication and protective earth.

Release decision

Record diagnostics and a controlled test of PROFIBUS DP and SIMOLINK communication expansion for an FM 458 system before handover.

Engineering boundary

Use 6DD1607-0EA1 only after the exact host, installed position, companion parts, protection measures and commissioning record have been matched. Do not borrow ratings from a similar-looking variant.

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Controls and service logic

Installed-system renewal

Restores the documented 6DD1607-0EA1 position while keeping the approved host and interfaces.

Controlled maintenance

Supports as-found recording, safe isolation and exact connection restoration.

Compatibility review

Compares the full marking, host, connectors, settings and companion hardware.

Commissioning evidence

Records diagnostics and a controlled functional test of PROFIBUS DP and SIMOLINK communication

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read 6DD1607-0EA1 and all companion markings
2. Compare	Host, position, connections, settings and revision
3. Install	Restore wiring, shielding, retention and protection
4. Verify	Review diagnostics and execute controlled function test

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6DD1607-0EA1

Engineering decisions

What does 6DD1607-0EA1 identify?

6DD1607-0EA1 identifies the exm 448-1 communication expansion module used for PROFIBUS DP and SIMOLINK communication expansion for an

Which installed system must 6DD1607-0EA1 match?

Match 6DD1607-0EA1 to the recorded FM 458 / SIMADYN D host, position and companion hardware.

Which markings must be checked on 6DD1607-0EA1?

Verify the complete 6DD1607-0EA1 text and every suffix, revision or assembly marking on the supplied item.

What should be recorded before removing 6DD1607-0EA1?

Record the slot, connectors, cable labels, switches, parameters, adjacent hardware and diagnostic state.

Can 6DD1607-0EA1 be replaced by appearance alone?

No. 6DD1607-0EA1 requires an exact identity and interface match against the installed-system record.

How should 6DD1607-0EA1 be isolated?

Use the approved maintenance state, remove connected energy and prove the affected circuit safe.

Related Apter Power pages

Siemens 6ES7214-1AG40-0XB0 - View Apter Power product page

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