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01 Readiness and operating boundary

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.

Confirm exact identity

Confirm the complete 6DD1607-0EA1 marking before work.

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

Establish the safe work boundary

Place the affected equipment in its approved maintenance state.

Identity	6DD1607-0EA1
Host	FM 458 / SIMADYN D
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
Inspector	_____
Result	Pass / hold / corrective action
Record	Date, diagnostic state and release reference

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6DD1607-0EA1

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02 Configuration and interface setup

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

Record the as-found configuration

Isolate connected energy and prove the circuit safe.

Module designation	EXM 448-1
Hardware type	Communication expansion module
Host platform	FM 458

Map connections and settings

Photograph the slot, wiring, connectors and settings before removal.

Identity	6DD1607-0EA1
Host	FM 458 / SIMADYN D
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
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03 Installation and service sequence

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

Restore the documented assembly

Match every documented interface and companion component.

Hardware type	Communication expansion module
Host platform	FM 458
PROFIBUS function	PROFIBUS DP communication

Protect every interface

Restore mechanical retention, shielding and protective earth.

Identity	6DD1607-0EA1
Host	FM 458 / SIMADYN D
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
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04 Verification and fault isolation

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

Verify the installed function

Review hardware, network and controller diagnostics after energization.

Host platform	FM 458
PROFIBUS function	PROFIBUS DP communication
SIMOLINK function	Integrated SLB interface

Isolate unexpected response

Functionally verify PROFIBUS DP and SIMOLINK communication expansion for an FM 458 system before service release.

Identity	6DD1607-0EA1
Host	FM 458 / SIMADYN D
Acceptance	Diagnostics and functional response

PAGE TRACE	REQUIRED ENTRY
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05 Acceptance and service handover

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

Complete the release record

Confirm the complete 6DD1607-0EA1 marking before work.

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

Retain acceptance evidence

Place the affected equipment in its approved maintenance state.

Identity	6DD1607-0EA1
Host	FM 458 / SIMADYN D
Acceptance	Diagnostics and functional response

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