Product dashboard

Siemens 6DD1606-3AC0 is the IT41 expansion module for a SIMADYN D PM5 or PM6 CPU module. It adds analog and binary I/O together with four monitored incremental-encoder input channels.

Exact model	Product type	System family	Functional role
6DD1606-3AC0	IT41 Expansion Module	SIMADYN D	I/O Expansion Module

PARAMETER	DOCUMENTED VALUE
Exact model	6DD1606-3AC0
Module designation	IT41
Hardware type	Expansion module
Host CPU	PM5 or PM6
Analog outputs	4
Analog inputs	4
Binary outputs	16
Binary inputs	16

Release basis: verify the exact identity, retained host relationship, connected interfaces and controlled functional result.

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6DD1606-3AC0

System overview

The IT41 mounts directly on its matched PM5 or PM6 CPU position and extends the controller with fast technology I/O without using a separate backplane slot for data exchange.

Installed-system renewal

Restores the documented 6DD1606-3AC0 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 technology I/O and incremental-encoder expansion for a PM5 or PM6 CPU.

SYSTEM POSITION	RECORD
Installed identity	6DD1606-3AC0

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6DD1606-3AC0

Technical data map

PARAMETER	VERIFIED VALUE
Exact model	6DD1606-3AC0
Module designation	IT41
Hardware type	Expansion module
Host CPU	PM5 or PM6
Analog outputs	4
Analog inputs	4
Binary outputs	16
Binary inputs	16
Incremental encoders	4 with monitoring tracks
Encoder supervision	Interrupt input and reset output per encoder
Expansion limit	Up to two ITxx modules per CPU
Acceptance	I/O values, encoder tracks and diagnostics

CONTROL BAND	VERIFICATION RECORD
Identity	Exact model and complete label
Mechanical	Form, seating and retention
Interfaces	Power, wiring, communication and protection
Configuration	Settings, project and revision
Release	technology I/O and incremental-encoder expansion for a PM5 or PM6 CPU

Technical evidence record: Siemens SIMADYN D Hardware Manual, IT41 section 5.3

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6DD1606-3AC0

Applications and precautions

1. Confirm the complete 6DD1606-3AC0 marking before work.
2. Place the affected equipment in its approved maintenance state.
3. Isolate connected energy and prove the circuit safe.
4. Photograph the slot, wiring, connectors and settings before removal.
5. Match every documented interface and companion component.
6. Restore mechanical retention, shielding and protective earth.
7. Review hardware, network and controller diagnostics after energization.
8. Functionally verify technology I/O and incremental-encoder expansion for a PM5 or PM6 CPU before service release.

Complete each check against the installed record; hold release when any identity, connection, configuration or diagnostic result differs.

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6DD1606-3AC0

Buyer and engineering FAQ

What does 6DD1606-3AC0 identify?

6DD1606-3AC0 identifies the it41 expansion module used for technology I/O and incremental-encoder expansion for a PM5 or PM6 CPU.

Which installed system must 6DD1606-3AC0 match?

Match 6DD1606-3AC0 to the recorded SIMADYN D host, position and companion hardware.

Which markings must be checked on 6DD1606-3AC0?

Verify the complete 6DD1606-3AC0 text and every suffix, revision or assembly marking on the supplied item.

What should be recorded before removing 6DD1606-3AC0?

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

Related Apter Power pages

Siemens 6SE7037-0EJ84-1JC2 - View Apter Power product page

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