Siemens

6DD1606-3AC0

IT41 Expansion Module

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.

System position

Exact identity	System family	Functional role	Release basis
6DD1606-3AC0	SIMADYN D	I/O Expansion Module	Recorded test and diagnostics

Keep the hardware and configuration identities together

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.

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

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

CONTACT APTER POWER

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com

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Interfaces and integration

Define the installed role

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

Exact model	6DD1606-3AC0
Module designation	IT41
Hardware type	Expansion module

Map the host relationship

The complete 6DD1606-3AC0 identity is matched to the host position, companion hardware and retained engineering record before any connection is disturbed.

Host	SIMADYN D
Primary role	technology I/O and incremental-encoder
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 SIMADYN D position, connected interfaces and configuration baseline.

Acceptance evidence

Release 6DD1606-3AC0 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	6DD1606-3AC0
Module designation	IT41
Hardware type	Expansion module
Host CPU	PM5 or PM6
Analog outputs	4
Analog inputs	4

PARAMETER	VALUE
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

Identity decision

Accept only the complete 6DD1606-3AC0 marking and the recorded hardware execution.

Host decision

Confirm the receiving 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 technology I/O and incremental-encoder expansion for a PM5 or PM6 CPU before handover.

Engineering boundary

Use 6DD1606-3AC0 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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6DD1606-3AC0

Controls and service logic

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

Service decision path

STEP	REQUIRED OUTCOME
1. Identify	Read 6DD1606-3AC0 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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6DD1606-3AC0

Engineering decisions

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.

Can 6DD1606-3AC0 be replaced by appearance alone?

No. 6DD1606-3AC0 requires an exact identity and interface match against the installed-system record.

How should 6DD1606-3AC0 be isolated?

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

Related Apter Power pages

Siemens 6SE7035-1EJ84-1JC1 - View Apter Power product page

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

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