

ABB DSQC325 3HAB2241-1

Complete Product Information

ABB DSQC325 3HAB2241-1 carries the main CPU-board role in a legacy ABB robot-controller architecture.

WHAT THIS PRODUCT DOES

ABB DSQC325 3HAB2241-1 is a main CPU board for legacy ABB robot controllers. It provides the central controller-processing position for the installed robot system.

Product characteristic 1

Complete identity combines DSQC325 with part number 3HAB2241-1.

Product characteristic 2

Provides the main CPU-board position in the controller rack.

Product characteristic 3

Application data and controller settings require an approved backup before service.

Product characteristic 4

Restart validation covers boot status, communication, I/O and robot program execution.

PRODUCT-PAGE TECHNICAL SNAPSHOT

Hardware type	Main CPU board
Part number	3HAB2241-1
System context	Legacy ABB robot controller
Control role	Central controller processing

IMPORTANT NOTICE

Verify the complete ABB DSQC325 3HAB2241-1 marking, installed position and mating interfaces before installation.

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Features and technical data

TECHNICAL DATA SHOWN ON THE PRODUCT PAGE

Hardware type	Main CPU board
Part number	3HAB2241-1
System context	Legacy ABB robot controller
Control role	Central controller processing

FEATURE INTERPRETATION

Product identity Complete identity combines DSQC325 with part number 3HAB2241-1.	System role Provides the main CPU-board position in the controller rack.
Service context Application data and controller settings require an approved backup before service.	Return-to-service focus Restart validation covers boot status, communication, I/O and robot program execution.

SIGNAL OR CONTROL PATH



This main cpu board belongs to a defined hardware position in an ABB robot-control installation. Match the installed label, connectors, slot and service record before commissioning.

PRODUCT-PAGE TECHNICAL QUESTIONS

What role does ABB DSQC325 3HAB2241-1 perform?	It is the main CPU board in a legacy ABB robot-controller rack.
Which two identifiers establish the exact CPU board?	The board must show DSQC325 together with part number 3HAB2241-1.
What data protection step precedes CPU-board service?	Create and verify the controller backup required by the site's recovery procedure.

Common applications

The application groups below reproduce the model-specific uses presented on the product page and connect each use to a practical verification point.

Controller CPU replacement Restore the documented main-processor position after an exact-identity failure.	Program recovery Reload the approved controller application after hardware service.
Legacy controller overhaul Inspect memory, backplane and processor-board connections during refurbishment.	System recommissioning Validate startup, communication, I/O and robot execution before release.

APPLICATION VERIFICATION MAP

Controller CPU replacement	Confirm the documented system position and the required operating function.
Program recovery	Compare the restored connection or control path with the approved record.
Legacy controller overhaul	Check the physical interface and the retained configuration before startup.
System recommissioning	Record diagnostics and the final controlled response before release.

INFORMATION CARRIED INTO THE WORK RECORD

Identity record Complete marking and assigned system position.	Connection record Connector, conductor and interface arrangement as found.
Configuration record Controlled settings, application data and option state.	Acceptance record Observed status, response and release decision.

IMPORTANT NOTICE

Use the complete product identifier for every application review; a related product link is not evidence of interchangeability.

APPLICATION QUESTIONS

What data protection step precedes CPU-board service?	Create and verify the controller backup required by the site's recovery procedure.
Which installed items should be recorded on ABB DSQC325 3HAB2241-1?	Record memory devices, connector positions, visible settings and the exact rack location.
What should remain untouched during DSQC325 replacement?	Leave unrelated rack modules and their connections unchanged unless the work package includes them.

Product precautions and questions

EIGHT MODEL-SPECIFIC PRECAUTIONS

- 01 Match DSQC325 and 3HAB2241-1 against the installed CPU-board label.
- 02 Create and verify the approved controller backup before removing processor hardware.
- 03 Record memory devices, connectors, settings and the rack position.
- 04 Isolate power and use ESD controls during CPU-board handling.
- 05 Inspect the processor slot and backplane without disturbing unrelated modules.
- 06 Restore only the approved application and configuration for the serviced controller.
- 07 Check the boot sequence, controller communication and assigned I/O.
- 08 Validate interlocks and the controlled robot program before automatic operation.

FREQUENTLY ASKED TECHNICAL QUESTIONS

What role does ABB DSQC325 3HAB2241-1 perform?	It is the main CPU board in a legacy ABB robot-controller rack.
Which two identifiers establish the exact CPU board?	The board must show DSQC325 together with part number 3HAB2241-1.
What data protection step precedes CPU-board service?	Create and verify the controller backup required by the site's recovery procedure.
Which installed items should be recorded on ABB DSQC325 3HAB2241-1?	Record memory devices, connector positions, visible settings and the exact rack location.

IMPORTANT NOTICE

Release the product only after identity, connection records, diagnostics and functional response are accepted.

RELEASE CHECKLIST

Identity accepted	The complete product marking and assigned system position agree.
Interfaces accepted	Connections, retention and controlled configuration match the recorded condition.
Response accepted	Diagnostics and the intended technical response have been documented.

FAQ, source record and related models

ADDITIONAL TECHNICAL QUESTIONS

What should remain untouched during DSQC325 replacement?	Leave unrelated rack modules and their connections unchanged unless the work package includes them.
What is reviewed during the first boot?	Review processor indications, boot completion, controller communication and diagnostic messages.
How is the restored application accepted?	Confirm the approved program, configuration, I/O assignment and interlocks before motion testing.
When should ABB DSQC325 3HAB2241-1 remain isolated?	Keep it isolated if the backup, identity, boot state or restored configuration cannot be verified.

MANUFACTURER EVIDENCE RECORD

Manufacturer source	Cross-checked exact-item records identify DSQC325 3HAB2241-1 as the main CPU board for legacy ABB robot controllers.
Evidence boundary	Technical statements are limited to the identified product or applicable manufacturer family.
Selection control	Use the complete ordering string and verify the installed system before purchase or installation.

RELATED MODELS ON APTERPOWER

ABB 3HAC033388-001	Related product reference. Review the complete ordering string before selection.
ABB DSQC323-3HAB5956-1	Related product reference. Compare the required interface and system position.
ABB DSQC 679 3HAC028357-001	Related product reference. Confirm the execution independently for the intended task.

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