

ABB DSQC335 3HAB6182-1

Installation & Commissioning Guide

ABB DSQC335 3HAB6182-1 is a robot CPU board used in legacy ABB controller hardware. Its processor-board position coordinates controller execution within the installed robot system.

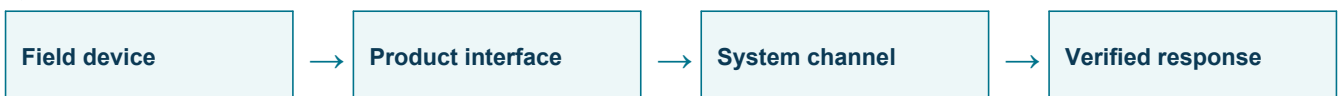
PRODUCT ROLE AND VERIFIED FEATURES

Feature 1 Exact identification links DSQC335 with part number 3HAB6182-1.	Feature 2 Provides processor-board hardware for the controller execution path.
Feature 3 Memory, configuration and rack details must be preserved before replacement.	Feature 4 Commissioning verifies controller startup and the affected motion-control functions.

VERIFIED DATA SNAPSHOT

Hardware type	Robot CPU board
Part number	3HAB6182-1
System domain	ABB robot controller
Service focus	Processor hardware and controller execution

SYSTEM RELATIONSHIP



APTERPOWER SALES TEAM
 WhatsApp / Phone: +86 180 3023 5313
 Email: sales13@apterpower.com
 Scan the approved WhatsApp code for model-specific support.



Pre-installation readiness

READINESS GATE

Identity Compare the complete marking with the approved work order and installed record.	System match Confirm the receiving channel, mating components and controlled configuration.
Physical condition Inspect mounting surfaces, connectors, terminals, cable and support hardware.	Work controls Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Hardware type Robot CPU board	Part number 3HAB6182-1
System domain ABB robot controller	Service focus Processor hardware and controller execution

IMPORTANT NOTICE

Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

SOURCE AND WORK CONTROLS

Manufacturer source	Cross-checked exact-item records consistently pair DSQC335 with 3HAB6182-1 as ABB robot CPU hardware.
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.

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Installation sequence

CONTROLLED WORK STEPS

- 01 Confirm the complete product marking and the recorded controller position before removal.
- 02 Save the controller configuration and maintenance record required by the site procedure.
- 03 Label every connector and photograph its orientation before disconnection.
- 04 Isolate controller power and apply electrostatic-discharge controls before handling the board.
- 05 Inspect the slot, backplane, connector contacts and retention hardware before installation.
- 06 Restore only the documented cable routes, board settings and mechanical supports.
- 07 Check controller diagnostics and board indications during controlled startup.
- 08 Validate the affected robot function and interlocks before enabling automatic operation.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.



WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state Observe status at power-up and check for unexpected fault or alarm indication.	Static value Verify the expected bias, gap, loop, contact or channel value for the application.
Dynamic response Apply the approved machine or test stimulus and confirm response and scaling.	Protection path Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC EVIDENCE

CPU-board service Replace the documented processor board while preserving the controller arrangement.	Legacy robot recovery Restore the saved application and configuration after approved hardware work.
Rack inspection Check the CPU slot, backplane and cooling condition during cabinet maintenance.	Execution validation Confirm startup, communication and controlled motion before production release.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

How is ABB DSQC335 3HAB6182-1 classified?	It is a robot CPU board for legacy ABB controller hardware.
Which part number must appear with DSQC335?	The exact product in this publication uses part number 3HAB6182-1.

Release record and technical references

CLOSEOUT QUESTIONS

What controller records should be saved before service?	Save the application, configuration, installed-slot details and connection record required for recovery.
Which hardware details should be photographed?	Photograph memory components, connector orientation, rack position and any visible board settings.
What ESD control applies to ABB DSQC335 3HAB6182-1?	Handle the unpowered board only at an ESD-safe workstation using the site's approved precautions.
How is CPU-board seating checked?	Confirm full backplane engagement, mechanical retention and unobstructed cabinet cooling.
What should the controller show after startup?	The controller should complete its expected boot sequence without a processor or communication fault.
What final test applies to the DSQC335 processor position?	Verify the restored program, I/O, interlocks and controlled robot response before automatic operation.

RELATED MODELS FOR INSTALLATION PLANNING

ABB 3HAC021799-003	Installation-planning reference. Review the complete ordering string before selection.
ABB DSQC223 YB560103 BD/4	Installation-planning reference. Compare the required interface and system position.
ABB DATX 100 3ASC25H208	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER SOURCE AND FINAL CONTROL

Manufacturer source	Cross-checked exact-item records consistently pair DSQC335 with 3HAB6182-1 as ABB robot CPU hardware.
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.

IMPORTANT NOTICE

Release the equipment only after the responsible site authority accepts the recorded result.

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