

ABB CI610 3BHT300003R1

I/O Bus Extender / Exact identity and technical profile

The technical record defines CI610 as a basic-unit I/O bus extender and keeps the exchange reference separate from functional claims.

Manufacturer product ID	3BHT300003R1
ABB type designation	CI610
Catalog description	IOB_A bus extender for basic unit
Long description	I/O bus extender
Equipment role	Extends the basic-unit I/O bus
Exchange reference	7650055-439

TECHNICAL MARKER

I/O bus extension role

TECHNICAL MARKER

Basic-unit association

TECHNICAL MARKER

Exact interface position

TECHNICAL MARKER

Legacy S600 hardware

Technical boundary

The exact model and its published data govern this reference. Similar family names, suffixes or physical appearance do not establish the same electrical or software behavior.

Identity evidence	Read CI610 3BHT300003R1 from the installed label and procurement record
Function evidence	Confirm the published i/o bus extender role in the S600 I/O system
Configuration evidence	Retain the project, mapping, range, address or interface assigned to this position
Release evidence	Link final diagnostics to a witnessed field or operator response

TECHNICAL DECISION

Accept CI610 3BHT300003R1 only when its identifier and installed-system role agree.

CHANGE BOUNDARY

Any redesign beyond the documented CI610 3BHT300003R1 position requires separate engineering approval.

ABB CI610 3BHT300003R1

I/O Bus Extender / Published characteristics

This matrix groups the published CI610 3BHT300003R1 characteristics that control identification, configuration and engineering review. Each entry remains tied to the exact i/o bus extender record.

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ABB type designation	CI610
Catalog description	IOB_A bus extender for basic unit
Long description	I/O bus extender
Equipment role	Extends the basic-unit I/O bus
Exchange reference	7650055-439
RoHS	Following EU Directive 2011/65/EU
Battery count	0

INTERPRETATION

Use every CI610 3BHT300003R1 value with the exact installed configuration.

DESIGN RECORD

Retain the drawing, project and channel or interface assignments that make CI610 3BHT300003R1 data actionable.

Nameplate check	Manufacturer and full reference agree with the controlled record
Range check	Published operating or signal data agree with the configured use
Interface check	Backplane, terminal, cable, network or memory arrangement is documented
Limit check	Loading, channel count, supply or lifecycle constraint is reviewed
Evidence close	Source title and applicable product record are retained with the decision

NO BORROWED VALUES

Another ABB suffix cannot fill a missing CI610 3BHT300003R1 parameter.

ENGINEERING OUTPUT

Record the exact value used, its purpose and any unresolved item before selection.

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I/O Bus Extender / System role and data flow

Basic-unit bus extension
Continues the documented I/O bus beyond the base assembly.

Legacy station maintenance
Preserves module order and interface topology during controlled service.

Bus-fault isolation
Supports inspection of the extender position without redesigning the station.

Exact interface renewal
Restores the CI610 position with its original connectors and route.

Signal and configuration path

Field layer	Sensors, loads, terminal or operator interface assigned by the design
Module layer	CI610 3BHT300003R1 performs its published i/o bus extender role
Control layer	PLC project, address map or runtime application interprets the exchanged data
Acceptance layer	Diagnostics and intended process response are witnessed together

Engineering boundary

Application examples describe system roles only. They do not establish automatic interchangeability, replacement approval or suffix equivalence.

Observed input	Field, network or operator condition presented to CI610 3BHT300003R1
Published action	The documented i/o bus extender function processes that condition
Configured interpretation	PLC logic, HMI project or station mapping assigns system meaning
Expected output	A defined state, value, message or command is produced
Acceptance proof	The complete path is witnessed under controlled conditions

APPLICATION RECORD
Tie each CI610 3BHT300003R1 use case to the installed drawing or project tag.

EXCEPTION CONTROL
Document and resolve any behavior that differs from the approved response.

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I/O Bus Extender / Engineering decisions

SUPPORTED IDENTITY

CI610 3BHT300003R1

PUBLISHED FUNCTION

I/O Bus Extender

SYSTEM CONTEXT

S600 I/O

UNSUPPORTED INFERENCE

A nearby model, suffix or family resemblance

Model-specific questions

What is ABB CI610 3BHT300003R1?

It is the I/O bus extender identified for an S600 basic unit.

Which exchange reference is published for ABB CI610 3BHT300003R1?

The ABB product record lists 7650055-439.

Can ABB CI610 3BHT300003R1 be treated as a generic network converter?

No. It is tied to the documented I/O bus arrangement.

What is checked after energizing ABB CI610 3BHT300003R1?

Review bus and controller diagnostics plus the health of every downstream module.

Is ABB CI610 3BHT300003R1 an I/O signal module?

No. Its documented role is bus extension rather than field signal conversion.

What topology data must be retained for ABB CI610 3BHT300003R1?

Keep the basic-unit position, bus direction, module sequence, connectors and cable route.

What should be inspected before installing ABB CI610 3BHT300003R1?

Inspect contacts, connector seating, cable strain relief, grounding and enclosure condition.

What is the replacement boundary for ABB CI610 3BHT300003R1?

The full type and product ID must match; topology changes require separate engineering approval.

Decision closeout

Close the CI610 3BHT300003R1 technical review with the exact identifier, applicable published limits and the installed configuration assumptions explicitly recorded.

Question coverage	Identity, function, configuration and field handling addressed
Open item	Any unanswered exact-model point is listed without guessed data
Decision owner	Responsible engineering or maintenance role identified
Supporting record	Drawing, project revision, readings and witnessed result attached

APPROVAL

The CI610 3BHT300003R1 decision is accepted only within the documented scope.

REVIEW TRIGGER

A different suffix, wiring arrangement, project or application requires a new review.

ABB CI610 3BHT300003R1

I/O Bus Extender / Evidence and support

Exact product	ABB CI610 3BHT300003R1
Technical class	I/O Bus Extender
Platform	S600 I/O
Evidence use	Exact-model characteristics and engineering boundary
Record with	Installed drawing, project and acceptance evidence
Retained evidence	Nameplate, source title, configuration baseline and field record
Installation evidence	Isolation, conductor/connector record and post-work inspection
Commissioning evidence	Diagnostics, measurements and intended response
Final record	Responsible witness, date, exceptions and approved disposition

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

[ABB DI828 3BSE069054R1](#)
[View ABB DI828 3BSE069054R1 page](#)
[ABB AI815 3BSE052604R1](#)
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MANUFACTURER EVIDENCE RECORD

ABB CI610 Exact Product Record

3BHT300003R1 official product data

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Send the exact model, quantity, destination and requested condition for a quotation.

