

SC510 3BSE003832R1

Submodule Carrier

ABB SC510 3BSE003832R1 is a submodule carrier without a CPU for Advant Controller 450. ABB documents SC510 as supporting up to seven submodules within the controller carrier arrangement.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
Complete model	SC510 3BSE003832R1
Product role	Submodule Carrier
System family	Advant Controller 450

Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

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Technical Specifications

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	SC510	Controller family	Advant Controller 450
ABB item	3BSE003832R1	Maximum submodules	Up to 7 on SC510
Product type	Submodule carrier	Carrier arrangement	Total controller allocation includes CPU and submodules
CPU included	No	GCOM arrangement	CI543 with SC510; up to 5 documented

Engineering boundary

Record the complete SC510 3BSE003832R1 identity, installed submodule positions and controller configuration. The carrier role and module allocation must match the Advant Controller 450 hardware record.

Identity Acceptance

CONTROL	VERIFIED VALUE
Product identity	SC510
ABB item	3BSE003832R1
Product type	Submodule carrier
CPU included	No

Functions and Applications

Seven-slot carrier role Provides the documented carrier positions for as many as seven submodules.	CPU-independent hardware Supplies the submodule carrier function without including a processor unit.
AC450 integration Operates within the Advant Controller 450 hardware architecture.	GCOM support Participates in the documented CI543 communication-module arrangement.

Common Applications

APPLICATION	ENGINEERING CONTEXT
AC450 submodule expansion	Holds approved submodules in an Advant Controller 450 station.
Communication-module hosting	Supports documented CI543 communication arrangements.
Carrier replacement	Restores the exact submodule layout after a controlled SC510 replacement.
Legacy controller maintenance	Preserves module positions and controller allocation records during service.

Controlled acceptance duty

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
1	Verify ABB SC510 3BSE003832R1 before work.
2	Record every installed submodule and carrier position.
3	Place the Advant Controller 450 in the approved maintenance state.
4	Confirm that the replacement carrier does not include a CPU.
5	Use ESD controls when removing or inserting submodules.
6	Do not exceed the documented SC510 submodule allocation.
7	Restore every submodule to its approved recorded position.
8	Verify controller diagnostics and all affected communication paths before release.

Model-Specific FAQ - Part 1

QUESTION	ANSWER
What is ABB SC510 3BSE003832R1?	It is a CPU-less submodule carrier for Advant Controller 450.
Does ABB SC510 3BSE003832R1 include a CPU?	No. ABB describes SC510 as a submodule carrier without CPU.
How many submodules can ABB SC510 3BSE003832R1 hold?	ABB documents up to seven submodules on an SC510 carrier.
Which controller family uses ABB SC510 3BSE003832R1?	The carrier is documented for Advant Controller 450.

Related Products

MODEL	APTER POWER PAGE
ABB P4LR 1KHL015107R0001	View ABB P4LR 1KHL015107R0001
ABB G4AI 1KHL015623R0001	View ABB G4AI 1KHL015623R0001
ABB G4AK 1KHL016009R0001	View ABB G4AK 1KHL016009R0001
ABB 1KHL178016R0001F	View ABB 1KHL178016R0001F

Model-Specific FAQ - Part 2

QUESTION	ANSWER
Can ABB SC510 3BSE003832R1 host CI543 communication modules?	Yes. ABB documents CI543 GCOM arrangements with SC510.
What must be recorded before replacing ABB SC510 3BSE003832R1?	Record every submodule identity, position and the complete controller hardware allocation.
Can submodules be returned to different positions on ABB SC510 3BSE003832R1?	Only when the approved controller hardware configuration explicitly authorizes the new allocation.
What confirms ABB SC510 3BSE003832R1 commissioning?	All submodules must match their recorded positions and controller diagnostics and communication must pass controlled tests.

Related Products and Release

MODEL	APTER POWER PAGE
ABB 1KHW001381R0001	View ABB 1KHW001381R0001
ABB 1KHW001432R0001	View ABB 1KHW001432R0001
ABB DI811	View ABB DI811
ABB TU831V1 3BSE013235R1	View ABB TU831V1 3BSE013235R1

MANUFACTURER SOURCE RECORDS

1. ABB SC510 3BSE003832R1 Official Product Record
2. ABB Advant Controller 450 Data Sheet 3BSE070176

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