

Installation Identity and Scope

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.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	SC510 3BSE003832R1
Manufacturer	ABB
Hardware role	Submodule Carrier
System family	Advant Controller 450

Controlled engineering copy

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.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313

EMAIL sales13@apterpower.com

WEBSITE www.apterpower.com



Pre-Installation Plan

NO.	REQUIRED ACTION
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.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete SC510 3BSE003832R1 marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Product type	Submodule carrier
CPU included	No
Controller family	Advant Controller 450
Maximum submodules	Up to 7 on SC510
Carrier arrangement	Total controller allocation includes CPU and submodules
GCOM arrangement	CI543 with SC510; up to 5 documented

Configuration 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.

Expected Technical Values

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

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete SC510 3BSE003832R1 marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING 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.

Related Products

MODEL	APTER POWER PAGE
ABB DSBC174 3BSE012211R1	View ABB DSBC174 3BSE012211R1
ABB SR511 3BSE000863R1	View ABB SR511 3BSE000863R1
ABB 07DI92	View ABB 07DI92
ABB 07KT92 JR5250500R0902	View ABB 07KT92 JR5250500R0902

Source, Related Products and Release

MODEL	APTER POWER PAGE
ABB 07KR91 GJR5250000R0101	View ABB 07KR91 GJR5250000R0101
ABB 07KP90 GJR5251000R0202	View ABB 07KP90 GJR5251000R0202
ABB 07EB62R1 GJV3074342R1	View ABB 07EB62R1 GJV3074342R1
ABB 07KP60R101 GJV3074360R101	View ABB 07KP60R101 GJV3074360R101

MANUFACTURER SOURCE RECORDS

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

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	SC510 3BSE003832R1 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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