

Installation Identity and Scope

Allen-Bradley 1746-A7 is a seven-slot SLC 500 modular chassis that provides the mechanical mounting and backplane connection for the processor or communication adapter, power supply and installed SLC modules.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	1746-A7
Manufacturer	Allen-Bradley
Hardware role	7-Slot Chassis
System family	SLC 500

Controlled engineering copy

Match the complete 1746-A7 chassis identity, mount it with all four chassis tabs and verify every installed module, power supply and backplane connection before commissioning.

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1746-A7

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete 1746-A7 marking before work.
2	De-energize the complete SLC 500 station before removing modules or the chassis.
3	Record the slot assignment and connector location of every installed module.
4	Use all four chassis mounting tabs and approved mounting hardware.
5	Confirm power-supply and total backplane-current compatibility.
6	Keep the chassis free from conductive debris and cabinet contamination.
7	Inspect backplane connectors before reinstalling modules.
8	Restore modules to their recorded slots and complete processor, I/O and communication checks.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete 1746-A7 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
Hardware style	Modular chassis
Module slots	7
Mounting	Panel mount
Mounting tabs	4
Backplane current at 5.1 V DC	10 A maximum
Backplane current at 24 V DC	2.88 A maximum
Operating temperature	0 to 60 degrees C
Storage temperature	-40 to 85 degrees C

Configuration boundary

Match the complete 1746-A7 chassis identity, mount it with all four chassis tabs and verify every installed module, power supply and backplane connection before commissioning.

Expected Technical Values

PARAMETER	VALUE
Relative humidity	5 to 95 percent, noncondensing
Lifecycle status	Discontinued March 31, 2024
Planned replacement	No Rockwell Automation replacement listed

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete 1746-A7 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 Allen-Bradley 1746-A7?	1746-A7 is a seven-slot modular chassis for the SLC 500 system.
How many slots does Allen-Bradley 1746-A7 provide?	It provides seven module slots.

Related Products

MODEL	APTER POWER PAGE
Allen-Bradley 1746-ITV16	View Allen-Bradley 1746-ITV16
Allen-Bradley 1746-IV32	View Allen-Bradley 1746-IV32
Allen-Bradley 1746-NI16I	View Allen-Bradley 1746-NI16I
Allen-Bradley 1746-NI8	View Allen-Bradley 1746-NI8

Source, Related Products and Release

MODEL	APTER POWER PAGE
Allen-Bradley 1746-NIO4V	View Allen-Bradley 1746-NIO4V
Allen-Bradley 1746-NO4I	View Allen-Bradley 1746-NO4I
Allen-Bradley 1746-NR4	View Allen-Bradley 1746-NR4
Allen-Bradley 1746-OAP12	View Allen-Bradley 1746-OAP12

MANUFACTURER SOURCE RECORDS

1. Rockwell Automation 1746 Chassis Installation Instructions, publication 1746-IN016C-MU-P
2. Rockwell Automation product lifecycle record for 1746-A7

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	1746-A7 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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